

# **VAUXHALL Cascada**

**Infotainment Manual  
Model Year 2014  
Edition: August 2013**

**KTA-2748/1-VX-en**

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# Contents

Navi 950/650 / CD 600 .....	3
Navi 900/600 / CD 400plus/ 400/300 .....	73

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# Navi 950/650 / CD 600

Introduction .....	4
Basic operation .....	14
Radio .....	22
CD Player .....	28
External devices .....	30
Navigation .....	36
Speech recognition .....	54
Phone .....	58
Index .....	68

## Introduction

General information .....	4
Theft-deterrent feature .....	5
Control elements overview .....	6
Usage .....	12

## General information

The Infotainment system provides you with state-of-the-art in-car infotainment.

The radio can easily be used by registering a large number of FM, AM and DAB (Digital Audio Broadcasting) radio stations with the 1...6 preset buttons.

You can connect external data storage devices, e.g. iPod, USB devices, or other auxiliary devices to the Infotainment system as further audio sources; either via cable or via Bluetooth.

Using the controls and menus of the Infotainment system, you can operate approved smartphone applications.

In addition, the Infotainment system is equipped with a phone application that allows for comfortable and safe use of your mobile phone in the vehicle.

Optionally, the Infotainment system can be operated using the instrument panel controls, the controls on the steering wheel or the speech recognition function.

The well-thought-out design of the control elements and the clear displays enable you to control the system easily and intuitively.

### Note

This manual describes all options and features available for the various Infotainment systems. Certain descriptions, including those for display and menu functions, may not apply to your vehicle due to model variant, country specifications, special equipment or accessories.

## Important information on operation and traffic safety

### Warning

The Infotainment system must be used so that the vehicle can be driven safely at all times. If in

doubt, stop the vehicle and operate the Infotainment system while the vehicle is stationary.

### **Warning**

The usage of the navigation system does not release the driver from the responsibility for a correct, vigilant attitude in road traffic. The related traffic regulations must always be followed.

Only make entries (e.g. addresses) with the vehicle stationary.

If a navigation instruction contradicts traffic regulations, the traffic regulations always apply.

### **Warning**

Areas such as one-way streets and pedestrian zones are not marked on the navigation system map. In such areas, the system

may issue a warning that must be accepted. Therefore, pay particular attention to one-way streets and other roads and entrances that must not be driven into.

## **Radio reception**

Radio reception may be disrupted by static, noise, distortion or loss of reception due to:

- changes in distance from the transmitter,
- multi-path reception due to reflection,
- shadowing.

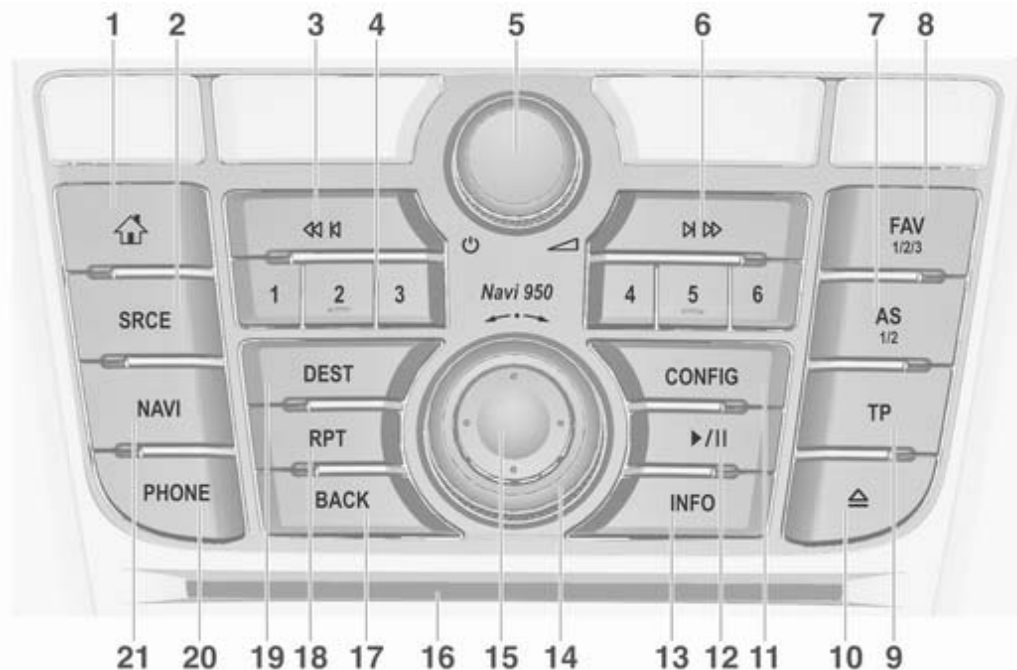
## **Theft-deterrent feature**










The Infotainment system is equipped with an electronic security system for the purpose of theft deterrence.

The Infotainment system therefore functions only in your vehicle and is worthless to a thief.

## Control elements overview

Navi 950 / 650



- 
- |   |  |   |
|---|--|---|
| <p><b>1</b>  button</p> <p>Access Home Page ..... 14</p> <p><b>2</b> <b>SRCE</b> (Source) button</p> <p>Press to toggle through the different audio sources</p> <p>CD/MP3 player ..... 28</p> <p>USB ..... 30</p> <p>AUX ..... 30</p> <p>Bluetooth ..... 30</p> <p>AM ..... 22</p> <p>FM ..... 22</p> <p>DAB ..... 22</p> <p><b>3</b>   button</p> <p>Radio: search backwards ..... 22</p> <p>CD/MP3/WMA: skip track backwards ..... 29</p> <p>External devices: skip track backwards ..... 32</p> | <p><b>4</b> Station buttons 1...6</p> <p>Short press: select station .... 24</p> <p>Long press: save station ..... 24</p> <p><b>5</b>  knob</p> <p>Press: switch on/off Infotainment system ..... 12</p> <p>Turn: adjust volume ..... 12</p> <p><b>6</b>   button</p> <p>Radio: search forwards ..... 22</p> <p>CD/MP3/WMA: skip track forwards ..... 29</p> <p>External devices: skip track forwards ..... 32</p> <p><b>7</b> <b>AS 1/2</b> button</p> <p>Short press: open autostore list ..... 23</p> <p>Long press: save autostore stations automatically ..... 23</p> <p><b>8</b> <b>FAV 1/2/3</b> button</p> <p>Open favourites list ..... 24</p> | <p><b>9</b> <b>TP</b> button</p> <p>Activate or deactivate radio traffic service ..... 25</p> <p><b>10</b>  button</p> <p>Eject CD ..... 29</p> <p><b>11</b> <b>CONFIG</b> button</p> <p>Open settings menu ..... 19</p> <p><b>12</b>  /  button</p> <p>CD/MP3/WMA: start/pause playback ..... 29</p> <p>External devices: start/pause playback ..... 32</p> <p><b>13</b> <b>INFO</b> button</p> <p>Radio: information on current station</p> <p>CD/MP3/WMA, external devices: information on current track</p> <p>Navigation: information, e.g. on current location</p> |
|---|--|---|



**14** Multifunction knob

Turn: mark menu options  
or set alphanumeric values .. 14

Press (the outer ring):  
select/activate the marked  
option; confirm set value;  
switch function on/off;  
open audio or navigation  
menu ..... 14

**15** Eight-way switch

Navigation: move display  
window in map view ..... 37

**16** CD slot ..... 29**17** **BACK** button

Menu: one level back ..... 14

Input: delete last character  
or entire entry ..... 14

**18** **RPT** button

Repeat last navigation  
message ..... 49

**19** **DEST** button

Open navigation  
destination menu ..... 41

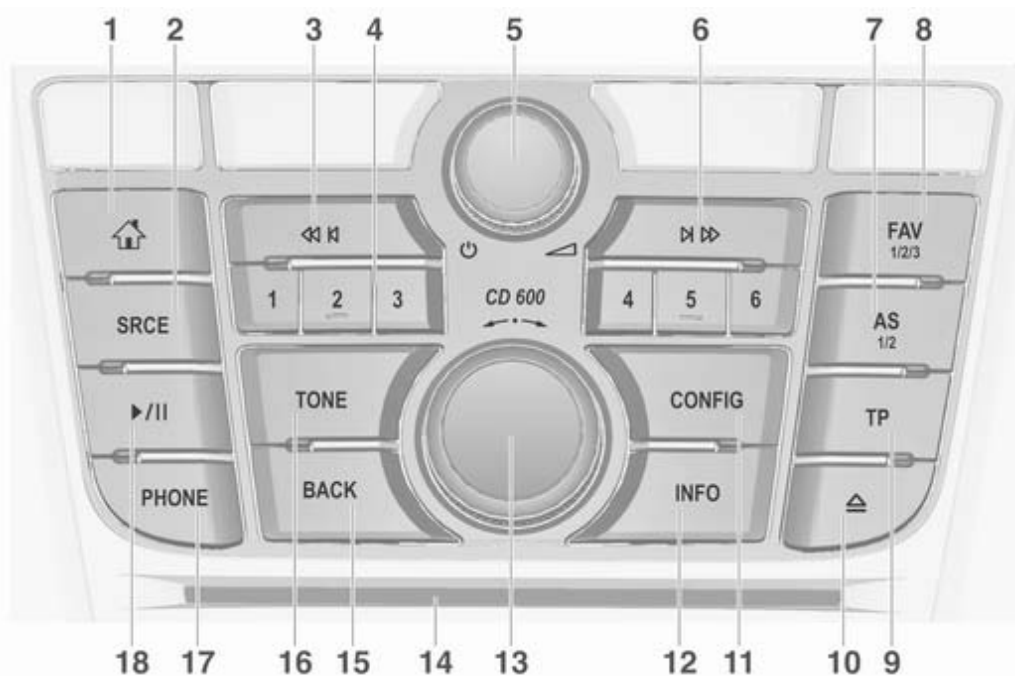
**20** **PHONE** button







Take phone call or  
activate/deactivate mute ..... 61

**21** **NAVI** button

Display map ..... 37

## CD 600



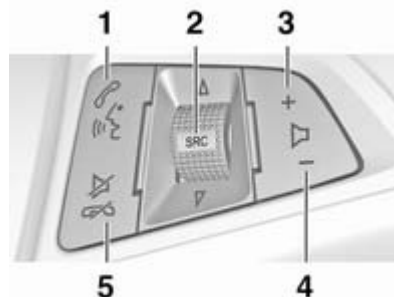
- 
- |   |  |   |
|---|--|---|
| <p><b>1</b>  button</p> <p>Access Home Page ..... 14</p> <p><b>2</b> <b>SRCE</b> (Source) button</p> <p>Press to toggle through the different audio sources</p> <p>CD/MP3 player ..... 28</p> <p>USB ..... 30</p> <p>AUX ..... 30</p> <p>Bluetooth ..... 30</p> <p>AM ..... 22</p> <p>FM ..... 22</p> <p>DAB ..... 22</p> <p><b>3</b>  button</p> <p>Radio: search backwards ..... 22</p> <p>CD/MP3/WMA: skip track backwards ..... 29</p> <p>External devices: skip track backwards ..... 32</p> | <p><b>4</b> Station buttons 1...6</p> <p>Long press: save station ..... 24</p> <p>Short press: select station .... 24</p> <p><b>5</b>  knob</p> <p>Press: switch on/off Infotainment system ..... 12</p> <p>Turn: adjust volume ..... 12</p> <p><b>6</b>   button</p> <p>Radio: search forwards ..... 22</p> <p>CD/MP3/WMA: skip track forwards ..... 29</p> <p>External devices: skip track forwards ..... 32</p> <p><b>7</b> <b>AS 1/2</b> button</p> <p>Short press: open autostore list ..... 23</p> <p>Long press: save autostore stations automatically ..... 23</p> <p><b>8</b> <b>FAV 1/2/3</b> button</p> <p>Open favourites list ..... 24</p> | <p><b>9</b> <b>TP</b> button</p> <p>Activate or deactivate radio traffic service ..... 25</p> <p><b>10</b>  button</p> <p>Eject CD ..... 29</p> <p><b>11</b> <b>CONFIG</b> button</p> <p>Open settings menu ..... 19</p> <p><b>12</b> <b>INFO</b> button</p> <p>Radio: information on current station</p> <p>CD/MP3/WMA, external devices: information on current track</p> <p><b>13</b> Multifunction knob</p> <p>Turn: mark menu options or set alphanumeric values .. 14</p> <p>Press: select/activate the marked option; confirm set value; switch function on/off; open audio menu ..... 14</p> <p><b>14</b> CD slot ..... 29</p> |
|---|--|---|

**15 BACK button**

Menu: one level back ..... 14

Input: delete last character  
or entire entry ..... 14**16 Tone button**

Open tone settings ..... 17

**17 PHONE button**Take phone call or  
activate/deactivate mute ..... 61**18 ►/II button**CD/MP3/WMA: start/  
pause playback ..... 29External devices: start/  
pause playback ..... 32**Steering wheel audio controls****1** buttonShort press: take phone call . 61  
or dial number in call list ..... 61  
or activate speech  
recognition ..... 54Long press: show call list ..... 61  
or deactivate speech  
recognition ..... 54**2 SRC (Source) button**

Press: select audio source .... 22

If radio is active: turn up/  
down to select next/  
previous preset radio  
station ..... 22If CD player is active: turn  
up/down to select next/  
previous CD/MP3/WMA  
track ..... 29If external device is active:  
turn up/down to select  
next/previous track ..... 32If phone is active: turn up/  
down to select next/  
previous entry in call list ..... 61If phone is active and calls  
waiting: turn up/down to  
switch between calls ..... 61**3** + button

Increase volume ..... 12

**4** - button

Reduce volume ..... 12

**5** buttonShort press: end/decline  
call ..... 61

or close call list .....	61
or activate/deactivate mute ...	12
or deactivate speech recognition .....	54

## Usage

### Control elements

The Infotainment system is operated via function buttons, a multifunction knob and menus that are shown on the display.


Inputs are made optionally via:

- the central control unit on the instrument panel ⇨ 6
- controls on the steering wheel ⇨ 6
- the speech recognition system ⇨ 54.


### Note

Only the most direct ways for menu operation are described in the subsequent chapters. In some cases, there may be other options.


### Switching the Infotainment system on or off

Press the  knob briefly. After switching on, the last selected Infotainment source becomes active.

### Automatic switch-off

If the Infotainment system is switched on using the  knob while the ignition is switched off, it switches off again automatically after 10 minutes.

### Setting the volume

Turn the  knob. The current setting is shown in a pop-up at the bottom of the screen.

When the Infotainment system is switched on, the last selected volume is set, provided that volume is lower than the maximum start-up volume.

The following can be set separately:


- the maximum start-up volume ⇨ 18
- the volume of the traffic announcements ⇨ 18
- the volume of the navigation messages ⇨ 37.

### Auto volume

When auto volume is activated ⇨ 18, the volume is adapted automatically to compensate for the road and wind noise as you drive.

### Mute

Press the **PHONE** button (if Phone portal is available: press for a few seconds) to mute the audio sources.

To cancel mute again: turn the  knob or press the **PHONE** button again (if Phone portal is available: press for a few seconds).

### Volume limitation at high temperatures




At very high temperatures inside the vehicle, the Infotainment system limits the maximum adjustable volume. If necessary the volume is decreased automatically.





## Modes of operation

### Audio players

Repeatedly press the **SRCE** button to toggle between the AM, FM, CD, USB, AUX, Bluetooth or DAB main menus.

Find detailed descriptions of:


- CD/MP3 player  28
- USB port  30
- AUX input  30

- Bluetooth audio  30
- AM radio  22
- FM radio  22
- DAB radio  27.

### Navigation


Press the **NAVI** button to display the map of the navigation application.

Press the multifunction knob to open a submenu with options for the input of destinations and the structuring of a route.

Find a detailed description of the navigation functions  36.

### Phone

Press the **PHONE** button to display the phone main menu with options for the input or selection of numbers.

Find a detailed description of the mobile phone functions  58.

### Note

Short information on the audio sources and the current navigation session may be displayed via the **Quick Info** application.

## Basic operation

Basic operation .....	14
Tone settings .....	17
Volume settings .....	18
System settings .....	19

## Basic operation

### Multifunction knob

The multifunction knob is the central control element for the menus.

Turn the multifunction knob:

- To mark a menu option.
- To set an alphanumeric value.

Press the multifunction knob  
(Navi 950 / Navi 650: press the outer ring):

- To select or activate the marked option.
- To confirm a set value.
- To switch a system function on/off.
- To open the audio or navigation menu within the respective application.

### button

Press the  button to access the **Home Page**.



Using the multifunction knob, you may then access the different applications.

Turn the multifunction knob to select the **More** screen button at the bottom of the screen.



Press the multifunction knob (Navi 950 / Navi 650: press the outer ring) to display the second **Home Page** with further applications.

Using the multifunction knob, you may then access the different applications.

#### Note

Most of the applications or application menus may also be directly accessed via the buttons on the instrument panel.

### BACK button

Press the **BACK** button to:

- Exit a menu or screen.
- Return from a submenu to the next higher menu level.
- Delete the last character in a character sequence.

Press and hold the **BACK** button for a few seconds to delete the entire entry.

### Examples of menu operation

#### Selecting a screen element

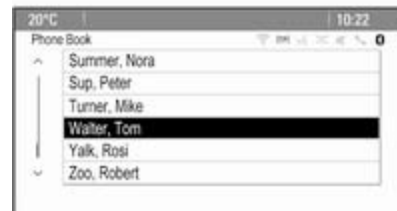
Turn the multifunction knob to move the cursor (= coloured background) to the desired option.

Press the multifunction knob to select the marked icon, screen button or menu item.

#### Note

In subsequent chapters the operating steps for selecting and activating a screen button or menu item will be described as "...select the...screen button..." or "...select the...menu item...".

### Scrolling lists



If there are more menu items available in a list than presentable on the screen, a scroll bar is displayed.

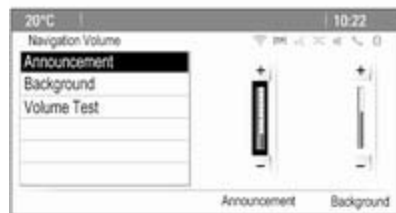
Turn the multifunction button clockwise to scroll downwards and anticlockwise to scroll upwards.

#### Note

In subsequent chapters the operating steps for scrolling a list will be described as "...scroll to...menu item...".



## Adjusting a setting



Turn the multifunction knob to change the current value of the setting.

Press the multifunction knob to confirm the set value.

### Note

In subsequent chapters the operating steps for adjusting a setting will be described as "...adjust the...setting...".

## Activating a menu item

Turn the multifunction knob to move the cursor (= coloured background) to the desired option.

Press the multifunction knob to activate the menu item. A checkmark or a point appear within the box or ring beside the respective menu item.



### Note

In subsequent chapters the operating steps for activating a menu item will be described as "...activate the...menu item...".

## Entering a character sequence

Turn the multifunction knob to select the desired character.

Press the multifunction knob to enter the respective character in the entry field at the top of the screen.

The last character in the character sequence can be deleted using the **Del** screen button or the **BACK** button. Pressing and holding the **BACK** button deletes the entire entry.

Press the multifunction knob to confirm the selected character.

### Note

In subsequent chapters the operating steps for entering characters will be described as "...enter the desired characters...".


## Messages

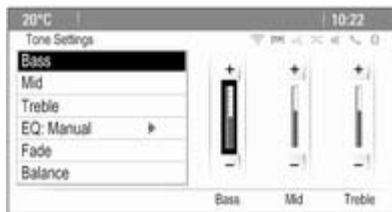
Before a system function is executed, you are sometimes prompted with a message. If requested, select one of the options.



The selection and activation of a screen button in a message function are the same as described for selecting an option in a menu.

## Tone settings

Press the  button and then select the **More** screen button at the bottom of the screen. On the second **Home Page**, select the **Tone** icon. The tone settings menu is displayed.



### Bass

Use this setting to enhance or attenuate the deep frequencies of the audio sources.

Adjust the setting as desired.

### Mid

Use this setting to enhance or attenuate the midrange frequencies of the audio source.

Adjust the setting as desired.

### Treble

Use this setting to enhance or attenuate the high frequencies of the audio sources.

Adjust the setting as desired.

### EQ mode

(EQ: Equaliser)

Use this setting to optimise the tone for a specific style of music, e.g.

**Rock** or **Classical**.

Select the **EQ** menu item. A submenu with predefined sound styles is displayed.

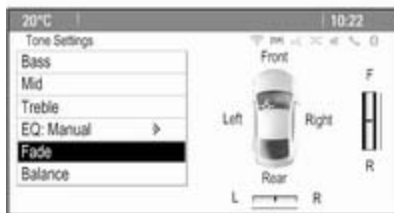
Select the desired sound style.

If one of the predefined sound styles is selected, **Bass**, **Mid** and **Treble** are preadjusted by the system.

If you manually adjust one of the settings described above, **EQ** is set to **Manual**.

### Fade and Balance

When **Fade** or **Balance** are selected, an illustration is displayed on the right side of the screen.



To adjust the volume distribution between the front and rear speakers in the vehicle, select the **Fade** menu item. Adjust the setting as desired.

To adjust the volume distribution between the left and right speakers in the vehicle, select the **Balance** menu item. Adjust the setting as desired.

## Volume settings

### Adjusting the Audio Cue Volume

When the system is turned on or off, music sounds are played.

Press the **CONFIG** button and then select the **Radio Settings** menu item. Select the **Audio Cue Options** menu item.

Select or deselect **Audio Cues** to activate or deactivate startup and shutdown sounds.

Select **Audio Cue Volume** to display the respective submenu. Adjust the setting as desired.

### Adjusting the Auto Volume

Press the **CONFIG** button and then select the **Radio Settings** option.

Select **Auto Volume** to display the respective menu.

To adjust the degree of volume adaptation, set **Auto Volume** to **Off**, **Low**, **Medium** or **High**.

**Off**: no enhancement of volume with increasing vehicle speed.

**High**: maximum enhancement of volume with increasing vehicle speed.

### Adjusting the Startup Volume

Press the **CONFIG** button and then select the **Radio Settings** menu item.

Select **Startup Volume** to display the respective menu.

Adjust the setting as desired.

### Adjusting the volume of traffic announcements

The volume of traffic announcements can be preset to a level independent of the "normal" volume level.

Press the **CONFIG** button and then select the **Radio Settings** menu item.

Select **RDS Options** and then **Traffic Volume** to display the respective menu.

Adjust the setting as desired.

#### Note

While an announcement is given out, the volume may simply be adjusted using the  $\odot$  knob.

## Adjusting the Chime Volume

When operating the controls in the vehicle, beeping sounds confirm your actions. The volume of the beeping sounds may be adjusted.

Press the **CONFIG** button and then select the **Vehicle Settings** menu item.

Select **Comfort and Convenience** and then **Chime Volume** to display the respective submenu. Select **Normal** or **High**.

## Adjusting the Navigation Volume

Press the **CONFIG** button and then select the **Navigation Settings** menu item.

Select the **Navigation Volume** menu item. The respective submenu is displayed.

To adjust the volume of the announcements, select **Announcement** and then adjust the setting as desired.

To adjust the volume of the audio source possibly playing in the background, select **Background** and then adjust the setting as desired.

Select **Volume Test** to get an audio example of the settings.

### Note

While an announcement is given out, the volume may simply be adjusted using the  $\odot$  knob.

## System settings

Various Infotainment system settings may be adjusted via the **Config** application.



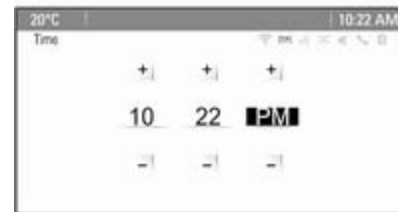
## Language settings

Press the **CONFIG** button and then select the **Languages** menu item. A list of all languages available is displayed.

Select the desired language.

## Time and date settings

Press the **CONFIG** button and then select the **Time and Date** menu item to display the respective submenu.



### Note

If **RDS Auto Time Adjust** is activated  $\Rightarrow$  25, time and date are automatically set by the system.

**Set time**

To adjust the time settings, select the **Set Time** menu item. Adjust the settings as desired.

**Set date**

To adjust the date settings, select the **Set Date** menu item. Adjust the settings as desired.

**Time format**

To choose the desired time format, select the **12 hr / 24 hr Format** menu item. A submenu is displayed. Activate **12 Hour** or the **24 Hour**.

**Software information**

Press the **CONFIG** button and then select the **Radio Settings** menu item.

Scroll through the list and select **Software Versions Menu** to display the respective submenu.

**Software version information**

To display a list of all software versions installed, select **Software Version Information**.

By default, all versions are activated.

**Software update**

To update your system software, contact your Vauxhall Authorised Repairer.

**Log file**

To generate a log file of your current software version, select the **Create Log File** menu item.

**Licensing information**

To display information on the manufacturer of the Infotainment system, select **Licensing Information**.

**Factory defaults**

To reset all Infotainment settings to their factory defaults, select **Clear and Reset Radio**.

**Display settings**

Press the **CONFIG** button and then select the **Display Settings** menu item to display the respective submenu.

**Home Page**

Select **Home Page Menu** to display the home page settings menu.

To access the menu from the **Home Page**, select the **Menu** screen button at the bottom of the screen.

The **Home Page** may be adjusted according to your personal preferences.

**Customise**

The application icons displayed on the first home page may be chosen as desired.

Select the **Customise** menu item to display a list of all applications installed in the system. Activate the menu items of those applications you wish to be displayed on the first home page.

The other applications are then arranged on the following pages.

**Sort**

Up to eight application icons may be arranged on each home page.

The positions of the icons can be changed as desired.

Select the **Sort** menu item to display the home pages in edit mode.

Select the icon you wish to move.

Scroll to the position on the home page where you wish the icon to be located. Press the multifunction knob to confirm.


The icon is moved to the new location. The icon that was located in that position before is now displayed in the position of the moved icon.

### **Home page defaults**

To reset the **Home Page** to its factory defaults, select **Restore Home Page Defaults**.

### **Display Off**

To turn the display off, select **Display Off**.

To turn the display back on, press any button on the instrument panel (except the  knob).

## Radio

Usage .....	22
Station search .....	22
Autostore lists .....	23
Favourite lists .....	24
Radio data system (RDS) .....	25
Digital audio broadcasting .....	27

## Usage

### Activating radio

Press the  button and then select the **AM**, **FM** or **DAB** icon.

The station last selected is played.

#### Note

When an audio source is already active, you may toggle between the different audio sources by repeatedly pressing the **SRCE** button.

## Station search

### Automatic station search

Briefly press the **◀◀** or **▶▶** buttons to play the next station in the station memory.

### Manual station search

Press and hold the **◀◀** or **▶▶** buttons. Release the button when the required frequency has almost been reached on the frequency display.

## Manual station tuning

In the FM and DAB waveband, press the multifunction knob to open the respective menu and then select **Manual tuning**. The frequency currently active is displayed at the bottom of the screen.

Turn the multifunction knob to reach the desired frequency.

In the AM waveband, turn the multifunction knob to adjust the frequency.

## Station lists

In the FM and DAB waveband, turn the multifunction knob to display the station list.

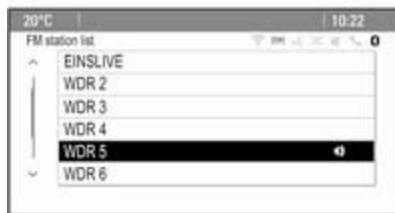
In the AM waveband, press the multifunction knob to display the respective waveband menu.

Select **AM Station List**.

A list of all receivable stations of the relevant waveband and in the current reception area is displayed.

**Note**

If no station list has been created beforehand, the Infotainment system performs an automatic station search.



Select the desired station.

**Note**

The currently received station is marked by 📻.

**Category list**

Numerous RDS ⇨ 25 and DAB ⇨ 27 stations broadcast a PTY code, which specifies the type of programme transmitted (e.g. news).

Some stations also change the PTY code depending on the content which is currently transmitted.

The Infotainment system stores these stations in the corresponding category list sorted by programme type.

**Note**

The category list submenu item is only available for the FM and the DAB wavebands.

To search for a programme type determined by the stations, select the waveband specific category list option.

A list of programme types currently available is displayed.

Select the desired programme type. A list of stations is displayed transmitting a programme of the selected type.

Select the desired station.

**Note**

The currently received station is marked by 📻.

**Updating the station lists**

If the stations stored in the waveband-specific station list can no longer be received, the AM and the DAB station lists must be updated.

**Note**

The FM station list is updated automatically.

Select the corresponding list item in the waveband-specific menu to update a station list.

A station search is started. Once the search is finished, the station previously selected is played.

To cancel the station search, press the multifunction knob.

**Note**

If a waveband specific station list is updated the corresponding category list (if available) is also updated.

**Autostore lists**

The stations best received in a waveband can be stored in and selected from the autostore lists.





Each waveband has 2 autostore lists (**AS 1**, **AS 2**), in each of which 6 stations can be stored.

#### Note

The currently received station is highlighted.

### Automatic station storing

Keep the **AS** button pressed until an autostore message is displayed. The 12 strongest stations in the current waveband are stored in the two autostore lists.

To cancel the autostore procedure, select the **Cancel** screen button.

### Storing stations manually

Stations can also be stored manually in the autostore lists.

Set the station to be stored.

Press the **AS** button to open the autostore list or to switch to another autostore list.

To store the station in a list position: press the corresponding station button 1...6 until a confirmation message is displayed.

#### Note

Manually stored stations are overwritten in an automatic station storing process.

### Retrieving a station

If required, press the **AS** button to open an autostore list or to switch to another autostore list.

Press one of the station buttons 1...6 to activate the station at the corresponding list position.

### Favourite lists

Stations of all wavebands can be stored manually in the favourite lists.



6 stations can be stored in each favourite list. The number of available favourite lists can be set (see below).

#### Note

The currently received station is highlighted.

### Storing a station

Set the station to be stored.

Briefly press the **FAV** button to open a favourite list or to switch to another favourite list.

To store the station in a list position: press the corresponding station button 1...6 until a confirmation message is displayed.

## Retrieving a station

If required, briefly press the **FAV** button to open a favourite list or to switch to another favourite list. Press one of the station buttons 1...6 to activate the station stored in the respective location.

## Defining the number of favourite lists

Press **CONFIG** button and then select the **Radio Settings** menu item. Select **Number of Favourite Pages** to display the respective submenu.

Select the number of favourite pages you wish to be displayed.

## Radio data system (RDS)

RDS is a service of FM stations that considerably facilitates the finding of the desired station and its fault-free reception.

## Advantages of RDS

- On the display the programme name of the set station appears instead of its frequency.
- During station search the Infotainment system tunes in to RDS stations only.
- The Infotainment system always tunes in to the best receivable broadcasting frequency of the set station by means of AF (Alternative Frequency).
- Depending on the station that is received the Infotainment system displays radio text that can contain, for example, information on the current programme.

## RDS Options menu

To open the menu for the RDS configuration, press the **CONFIG** button and then select the **Radio Settings** menu item.

Select **RDS Options** to display the respective submenu.



## Activating the RDS function

Activate the **RDS** menu item.

### Note

If **RDS** is deactivated, not all menu items of the **RDS Options** menu are displayed.

## Regional

RDS stations sometimes broadcast regionally different programmes on different frequencies.

If **Regional** is activated, only alternative frequencies (AF) with the same regional programmes are selected.

If **Regional** is deactivated, alternative frequencies of the stations are selected without regard to regional programmes.

### Text Scroll Freeze

Some RDS stations do not only show the programme service name on the display, but also additional information on the current programme. If additional information is displayed, the programme name is hidden.

To prevent additional information from being displayed, activate the **Text Scroll Freeze** menu item.

### Radio Text

If RDS and the reception of an RDS station are activated, information on the radio programme currently active or the music track currently playing are displayed below the programme name.

To show or hide the information, activate or deactivate the **Radio Text** menu item.

### Radio traffic service

(TP = Traffic Programme)

Radio traffic service stations are RDS stations that broadcast traffic news.

If the radio traffic service is switched on, radio or media playback is interrupted for the duration of the traffic announcement.

#### Switching the radio traffic service on and off

To switch the traffic announcement standby facility of the Infotainment system on and off, press the **TP** button.

- If the radio traffic service is switched on, [ ] is indicated on the display.
- If the current station is not a radio traffic service station, a search is started automatically for the next radio traffic service station.
- If a radio traffic service station has been found, [TP] is indicated on the display.

### Traffic Volume

To adjust the volume of traffic announcements, select the **Traffic Volume** menu item. The respective submenu is displayed. Adjust the setting as desired.

#### Listening to traffic announcements only

Switch on the radio traffic service and completely turn down the volume of the Infotainment system.

#### Blocking out traffic announcements

To block out a traffic announcement, e.g. during CD/MP3 playback:

Press the **TP** button or select the **Cancel** screen button in the TP message.

The traffic announcement is cancelled, but the radio traffic service remains switched on.

### Auto Time Adjust

The system constantly receives information on the current time and date.

If you wish the time and date settings to be updated automatically, activate the **RDS Auto Time Adjust** menu item.

If you wish to set time and date manually, deactivate the **RDS Auto Time Adjust** menu item.

## Digital audio broadcasting

Digital audio broadcasting (DAB) is an innovative and universal broadcast system.

### General information

- DAB stations are indicated by the programme name instead of the broadcasting frequency.
- With DAB, several radio programmes (services) can be broadcasted on a single frequency (ensemble).
- Besides high-quality digital audio services, DAB is also able to transmit programme-associated data and a multitude of other data services including travel and traffic information.

- As long as a given DAB receiver can pick up the signal sent out by a broadcasting station (even if the signal is very weak), sound reproduction is ensured.
- There is no fading (weakening of the sound) that is typical of AM or FM reception. The DAB signal is reproduced at a constant volume.
- Interference caused by stations that are on nearby frequencies (a phenomenon that is typical of AM and FM reception) does not occur with DAB.

If the DAB signal is too weak to be picked up by the receiver, the system switches over to the same programme on another DAB or FM station.

- If the DAB signal is reflected by natural obstacles or buildings, the reception quality of DAB is improved, whereas AM or FM reception is considerably impaired in such cases.
- When DAB reception is enabled, the FM tuner of the Infotainment system remains active in the

background and continually searches for the best receivable FM stations. If TP ⇨ 25 is activated, traffic announcements of the FM station which is currently best received are issued. Deactivate TP, if DAB reception should not be interrupted by FM traffic announcements.

### DAB announcements

Besides their music programmes, lots of DAB stations also broadcast announcements of various categories.

While being in the DAB main menu, press the multifunction knob to open the **DAB menu** and then select **Announcements**.

If you activate some or all categories, the currently received DAB service is interrupted when an announcement of these categories is made.

Activate the desired categories.

## CD Player

General information .....	28
Usage .....	29

### General information

#### Important information about audio CDs and MP3/WMA CDs

The Infotainment system's CD player can play audio CDs and MP3/WMA CDs.

Caution
<p>Under no circumstances place DVDs, single-CDs with a diameter of 8 cm or shaped CDs in the audio player.</p> <p>You must not put any stickers on CDs. These discs can get jammed in the CD drive and ruin the drive. An expensive replacement of the device will then be necessary.</p>

#### File formats

##### Audio CDs

The following CD formats can be used: CD-ROM Mode 1 and Mode 2; CD-ROM XA Mode 2, Form 1 and Form 2.

##### MP3 CDs

The following file formats can be used: ISO9660 Level 1, Level 2, (Romeo, Joliet).

MP3 and WMA files written in any format other than listed above may not play correctly, and their file names and folder names may not be displayed correctly.

The following restrictions apply for the data stored on an MP3/WMA CD:

Number of tracks: max. 999.

Number of folders: max. 255.

Folder structure depth:  
max. 64 levels (recommended:  
max. 8 levels).

Number of playlists: max. 15.

Number of songs per playlist:  
max. 255.


Applicable playlist  
extensions: .m3u, .pls, .asx, .wpl.

## Usage

### Starting CD playback

Push the CD with the labelled side facing upwards into the CD slot until it is pulled in.

CD playback starts automatically and the **CD** or **MP3 CD** main menu is displayed.

If there is already a CD inserted, but the **CD** or **MP3 CD** main menu is not active, press the  button and then select the **CD** icon.

The **CD** or **MP3 CD** main menu is displayed and CD playback is started.



Depending on the data stored on the audio **CD** or **MP3 CD**, more or less detailed information on the CD and the current music track are shown on the display.

#### Note

When an audio source is already active, you may toggle between the different audio sources by repeatedly pressing the **SRCE** button.

### Removing a CD

Press  button.


The CD is pushed out of the CD slot.

If the CD is not removed after ejection, it will be drawn back in again automatically after a few seconds.

### Track List

Turn the multifunction knob to display a list of all tracks on the CD.



#### Note

The currently playing track is marked by .



Select the desired track.

## Function buttons


### Skipping to previous or next track

Press the  or  buttons once or several times to skip to the previous or next track.

### Fast forwarding or rewinding

Press and hold the  or  buttons to fast forward or rewind the current track.


### Pausing playback

Press the  button to pause playback.

### Audio menu

Press the multifunction knob to display the CD or MP3 menu.

#### Note

Find a description of the functions in the MP3 menu  32.

### Shuffle function

To play the tracks on the CD in random order, activate the **Shuffle** menu item.

To return to the normal playing order, deactivate the **Shuffle** menu item.

## External devices

General information .....	30
Playing audio .....	32
Displaying pictures .....	33
Using apps .....	34

### General information

Sockets for the connection of external devices are located in the centre console.

#### **Note**

The sockets must always be kept clean and dry.

### AUX input

It is possible to connect e.g. an iPod, Smartphone or another auxiliary device to the AUX input. The Infotainment system can play music files contained in auxiliary devices.

When connected to the AUX input, the audio signal of the auxiliary device is transmitted via the speakers of the Infotainment system.

The volume can be adjusted via the Infotainment system. All other control functions must be operated via the auxiliary device.

#### **Connecting a device**

To connect the auxiliary device to the AUX input socket of the Infotainment system, use the following cable:

3-pole for audio source.

To disconnect the AUX device, select another function and then remove the AUX device.

### USB port

An MP3 player, USB device, iPod or Smartphone can be connected to the USB port. The Infotainment system can play music files or display pictures contained in auxiliary devices.

When connected to the USB port, the devices mentioned above can be operated via the controls and menus of the Infotainment system.

#### **Note**

Not all MP3 player, USB drive, iPod models or Smartphones are supported by the Infotainment system.

#### **Connecting/disconnecting a device**

Connect the device to the USB port. For the iPod, use the appropriate connection cable.

**Note**

If a non-readable USB device or iPod is connected, a corresponding error message will appear and the Infotainment system will automatically switch to the previous function.

To disconnect the USB device or iPod, select another function and then remove the USB storage device.

**Caution**

Avoid disconnecting the device during playback. This may damage the device or the Infotainment system.

**Bluetooth**

Bluetooth enabled audio sources (e.g. music mobile phones, MP3 players featuring Bluetooth, etc.), which support the Bluetooth music profiles A2DP and AVRCP can be connected wirelessly to the Infotainment system.

The Infotainment system can play music files contained in Bluetooth devices, e.g. iPod or Smartphone.

**Connecting a device**

Find a detailed description on the Bluetooth connection ↗ 59.

**File formats****Audio files**

Only devices formatted in the FAT32, NTFS and HFS+ file systems are supported.

**Note**

Some files may not be played properly. This might be due to a different recording format or the condition of the file.

Files from online shops to which Digital Rights Management (DRM) has been applied cannot be played.

The playable audio file formats are .mp3, .wma, .aac, .m4a and .aif.

When playing a file with ID3 tag information, the Infotainment system can display information, e.g. on the track title and artist.

**Picture files**

The displayable picture file formats are .jpg, .jpeg, .bmp, .png and .gif.

The files must have a maximum size of 2048 pixels in widths and 2048 pixels in heights (4MP).

**Gracenote**

The Gracenote database contains information on media data currently available on the market.

When connecting external devices, the tracks or files are recognised by the Gracenote function.

If the Gracenote normalisation function is activated, spelling mistakes in MP3 tag data are automatically corrected. Due to this, media search results may be improved.

Press the **CONFIG** button and then select the **Radio Settings** menu item.

Select **Gracenote Options** to display the respective submenu.

Activate the Gracenote normalisation function.



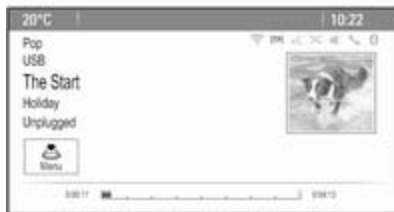
## Playing audio

### Starting playback

If not connected, connect the device  
 ↗ 30.

Press the  button and then select the **USB**, **AUX** or **Bluetooth** icon.



Example: USB main menu





### Function buttons

The media files on the USB and Bluetooth devices may be operated using the buttons on the instrument panel.


### Skipping to previous or next track

Press the  or  buttons once or several times to skip to the previous or next track.

### Fast forwarding or rewinding

Press and hold the  or  buttons to fast forward or rewind the current track.

### Pausing playback

Press the  button to pause playback.

### Audio menus

To display the respective audio menu, press the multifunction knob.

#### Note

Not all menu items are available in all audio menus.



### Shuffle function

Press the multifunction knob to display the USB or Bluetooth menu.

To play the tracks on the respective device in random order, activate the **Shuffle** menu item.

To return to the normal playing order, deactivate the **Shuffle** menu item.

### Browsing

(only available in USB menus)

To search for a track within the structure, select one of the menu items, e.g. **Folders**, **Play Lists** or **Albums**.

Browse through the structure until you find the desired track.

Select the track to start playback.

### Individual playlists

The system allows new playlists to be created via the Gracenote function. Similar tracks are put together on a list automatically generated by the system.

Select the track around which you wish to create a new playlist.


Select the **Play More Like This...** menu item in the respective audio menu. A new playlist is created and stored in the **Play Lists** menu.

To delete a playlist generated by the system, select the **Delete Automatic Playlist** menu item. A list of all generated playlists is displayed. Select the playlist you wish to delete. The playlist is deleted.

## Displaying pictures

### Viewing pictures

Connect a USB device ⇨ 30.

Press the  button and then select the **Pictures** icon to open the **Picture Viewer USB** menu.

A list of all pictures and picture folders found on the USB device is displayed.

Browse through the pictures and folders until you find the desired picture and select it. The picture is displayed.



### Function buttons

#### Info button

Select the **Info** screen button at the bottom of the screen to display information on the picture stored on

the USB device, e.g. a name or number. The respective information is displayed above the picture.

### Skipping to the previous or next picture

Select the < or > screen buttons at the bottom of the screen to display the previous or next picture.


### Slide show

To start a slideshow of all pictures stored in the respective picture folder, select the ► screen button at the bottom of the screen. The slideshow is started.

When the slideshow is started, the ► screen button changes to ||.

Select the || screen button to pause the slideshow.

### Rotating the picture

Select the  screen button at the bottom of the screen to rotate the picture.

## Picture menu

To display the picture menu, select the **Menu** screen button at the bottom of the screen.

### Picture Viewer Main

Select the **Picture Viewer Main** menu item to display a list of all picture folders, see above.

### Slideshow Timer

To adjust the time sequence in which one picture is shown during a slide show, select the **Slideshow Timer** menu item. The respective submenu is displayed. Select the desired option.

### Shuffle Images

To display the pictures of a slide show in random order, activate the **Shuffle Images** screen button.

## Using apps

The Infotainment system supports the operation of apps via the controls on the Infotainment system.

Before an application can be operated using the controls and menus of the Infotainment system, the respective application has to be installed via a smartphone.

## Activating the Tethering function on the smartphone


Activate the Tethering and the Bluetooth functions on the smartphone (see user guide of the smartphone).

### Note

Tethering has to be set up correctly depending on the network provider.

Connect the smartphone to the Infotainment system via Bluetooth  
➔ 59.

## Creating a new account

Press the  button and then select the **Apps** icon to display a welcome screen.

To setup a new account, select the respective screen button at the bottom of the screen. You are led through various setup screens.

First, a list of all phones paired to the system is displayed. Select the phone with which you want to establish an Internet connection to the app store.

Then a keyboard for the entry of an email address is displayed. Enter your email address.


In the menu displayed afterwards, a PIN code needs to be set. Select the New PIN entry field. A keyboard is displayed. Select the desired digits. To confirm the PIN code, select the Confirm New PIN entry field. The keyboard is redisplayed. Enter the PIN code again. Confirm your input.

A menu for country selection is displayed. Scroll through the list and select the desired country.

Last, the privacy policy of the app store is displayed. Select the **Agree** screen button to create the account.

The apps main menu is displayed.

## Installing new apps

Press the  button and then select the **Apps** icon to display the apps main menu.

Select the **Apps** screen button at the bottom of the screen to display the apps menu.

### All

To display a list of all apps available, select the **All** screen button at the bottom of the screen.

Scroll through the list and select the desired app. A submenu with detailed information on the respective app is displayed.


To install the app on the Infotainment system, select the **Install** screen button at the bottom of the screen. The app is installed.

When the installation process is finished, the **Install** screen button changes to **Launch**.

### Note

Apps installed on the Infotainment system are displayed as icons on the home pages.



To search for a specific app, select the  screen button. A keyboard is displayed.

Enter the search name. A list of all apps found for the respective search name is displayed.

Select the desired app. A submenu with detailed information on the respective app is displayed.


To install the app on the Infotainment system, select the **Install** screen button at the bottom of the screen. The app is installed.

When the installation process is finished, the **Install** screen button changes to **Launch**.

### Note

Apps installed on the Infotainment system are displayed as icons on the home pages.

### My Apps

Press the  button and then select the **Apps** icon to display the apps main menu.


Select the **Apps** screen button at the bottom of the screen to display the apps menu.

To display a list of all apps installed on the Infotainment system, select the **My Apps** screen button at the bottom of the screen.

Select the desired options for e.g. starting or deleting an app.

### Settings

The settings menu provides options for the management of the accounts.

Press the  button and then select the **Apps** icon to display the apps main menu.

Select the **Settings** screen button at the bottom of the screen to display the respective submenu.

Select the desired option.

# Navigation

General information .....	36
Usage .....	37
Destination input .....	41
Guidance .....	49

## General information

The navigation application will reliably guide you to your destination without the need to read maps.

The current traffic situation is taken into account in the route calculation. For this reason, the Infotainment system receives traffic announcements in the current reception area via RDS-TMC.

The navigation application cannot, however, take into account traffic incidents, traffic regulations changed at short notice and hazards or problems that arise suddenly (e.g. road works).

### Caution

The usage of the navigation system does not release the driver from the responsibility for a correct, vigilant attitude in road traffic. The relevant traffic regulations must always be

followed. If a navigation instruction contradicts traffic regulations, the traffic regulations always apply.

## Functioning of the navigation application

The position and movement of the vehicle are detected by the navigation application using sensors. The travelled distance is determined by the vehicle's speedometer signal and turning movements on bends by a gyro sensor. The position is determined by the GPS satellites (Global Positioning System).

By comparing the sensor signals with the digital maps, it is possible to determine the position with an accuracy of approx. 10 metres.

The system will also work with poor GPS reception, however, the accuracy of the determination of the position will be reduced.


After the entry of the destination address or point of interest (nearest petrol station, hotel, etc.) the route is calculated from the current location to the destination selected.

Route guidance is provided by voice commands and a direction arrow, as well as with the aid of a multi-colour map display.

## Usage

### Information on the map display

To display the map around the current location, you may optionally:

- Press the **NAVI** button.
- Press the  button and then select the **Navigation** icon.

### Route guidance not active



If route guidance is not active, the following information is displayed:

- In the top line: information on the audio source currently active and the time.
- Below the top line: **GPS** symbol.
- In the upper left corner: a compass that indicates the north direction.
- Map display of the area around the current position.
- Current position: indicated by a red triangle within a grey circle.
- Points of interest (POI), e.g. petrol stations, parking areas or restaurants: indicated by corresponding symbols (if activated).
- In the bottom line: street name of the current position.

### Route guidance active



If route guidance is active, the following information is displayed:

- In the top line: information on the audio source currently active and the time.
- Below the top line: **GPS** symbol.
- Below the top line: name of the street to follow after the next intersection.
- In the upper left corner: a compass symbol that indicates the north direction.
- Map display of the area around the current position.

- Current position: indicated by a red triangle within a grey circle.
- Route: indicated by a blue line.
- Final destination: indicated by a black chequered flag.
- Waypoint (intermediate destination): indicated by a red diamond.
- Points of interest (POI), e.g. petrol stations, parking areas, or restaurants: indicated by corresponding symbols (if activated).
- Traffic incidents, e.g. traffic jam: indicated by corresponding symbols (if activated).
- On the left side: direction arrow and distance to the next manoeuvre.
- On the left side: remaining distance to the final destination or to the next waypoint.
- On the left side: estimated arrival time or remaining travel time.
- In the bottom line: street name of the current position.

## Map manipulation

### Moving the visible map section

The visible map section on the map display can be moved freely in all directions using the Eight-way switch.

The Eight-way switch in the middle of the multifunction knob may be tilted in all directions.

Tilt the switch to one side. The visible map section moves in the respective direction.

To redisplay the map around the current location, press the **BACK** button.

### Changing the map scale

When the map is displayed, turn the multifunction knob to display a scale bar at the bottom of the screen.

Turn the multifunction knob again to adjust the scale as desired.

## Changing the map mode

The map may be displayed in three (route guidance not active), respectively five (route guidance active) different modes, see "Map setup" below.

Repeatedly press the **NAVI** button to toggle between the different map modes.

## Map setup

### Heading indicator

Press the multifunction knob to display the **Navigation Menu**. Select the **Heading Indicator** menu item to display the respective submenu.

The following options are available:

- **2D North Up:** 2D view, north facing upwards.
- **2D Heading Up:** 2D view, driving direction facing upwards.
- **3D Heading Up:** 3D view, driving direction facing upwards.

Select the desired option.

## Map modes

Press the multifunction knob to display the **Navigation Menu**. Select the **Map Modes** menu item to display the respective submenu.

The following options are available:

- **Full Map** ("Normal" view described above): Full screen map view, all function and indication screen buttons displayed.
- **Full Glory**: Full screen map view, most functions and indication screen buttons hidden.
- **Split with Turn List**: Divided screen with map on the left and turn list on the right side.
- **Split with Turn Arrow**: Divided screen with map on the left side and turn arrow for the next turning manoeuvre on the right side.
- **Split with Media**: Divided screen with map on the left side and audio source currently active on the right side.

Select the desired option.

## Map display

Press the multifunction knob to display the **Navigation Menu**. Select the **Map Settings** menu item and then **Map Display** to display the respective submenu.

Depending on the external lighting conditions, activate the **Day** or **Night** menu item.

For an automatic adaption by the system, activate **Automatic**.

## Displaying POIs

Press the multifunction knob to display the **Navigation Menu**.

Select the **Show POIs** menu item to display the respective submenu.

If you wish all POIs available in the system to be displayed on the map, activate **Show all POIs**.

If you do not wish POIs to be displayed on the map, activate **Hide all POIs**.

To only display specific POIs, activate the **User Defined** menu item and then activate the POI categories you wish to be displayed.

## Changing screen information

The route information displayed on the screen during active route guidance may be customised.

Press the multifunction knob to display the **Navigation Menu**. Scroll through the list and select the **Switch Route Time/Destination** menu item.

## Time information

If you wish to change the time information displayed, select **Switch Arrival/Travel Time** to display the respective submenu.

Activate the information setting you wish to be displayed.

## Destination information

If you are in a waypoint trip, you may want to display the route information for a waypoint instead of those for the final destination.

To change the setting, select **Switch Waypoint/Destination**. A list of all destinations in the waypoint trip currently active is displayed.

Activate the information setting you wish to be displayed.



## Position information

### Current position

Press the multifunction knob to display the **Navigation Menu**. Select the **Current Position Info** menu item.

On the right side of the screen, the current position is displayed on the map. On the left side, the GPS coordinates of the current position are shown.

### Destination position

If route guidance is active, you may display information on the destination entered.

Press the multifunction knob to display the **Navigation Menu**. Select the **Destination Position Info** menu item.

On the right side of the screen, the destination is displayed on the map. On the left side, the address and the GPS coordinates of the destination are shown.

### Saving a position

The current position or a destination position may be saved in the address book.

Select the **Save** screen button. Find a detailed description on saving addresses in the address book ⇨ 41.

### Route simulation

The Infotainment system features a route simulation mode for test purposes.

To start the simulation mode, press the **CONFIG** button and then select the **Navigation Settings** menu item.

Scroll through the list and select **Route Simulation** to display the respective submenu.

### Starting position

Since the simulation mode does not draw on the GPS signal providing the current position of the vehicle, a start position must be set manually.

### Use Last Known Position

To set the last position provided by a GPS signal as starting point, select the **Use Last Known Position** menu item.

### Use Previous Destination

To use one of the last destinations entered as starting point, select the **Use Previous Destination** menu item. The previous destinations list is displayed.

Select the desired address.

### Use Specified Location

To use a specific location as starting point, select the **Use Specified Location** menu item.

Enter an address. Find a detailed description ⇨ 41.

Simulation mode is started.

### Cancelling simulation mode

To leave the simulation mode, press the **CONFIG** button and then select the **Navigation Settings** menu item.

Scroll through the list and select **Route Simulation** to display the respective submenu.

Select the **Cancel Route Simulation** menu item.

### Additional route simulation menu

When route guidance is active in the simulation mode, an additional menu is displayed in the **Navigation Menu**.

Press the multifunction knob to display the **Navigation Menu**. Scroll through the list and select the **Route Simulation** menu item to display the respective submenu.

To stop the simulated route guidance, select the **Stop Simulation** menu item. The guidance process is stopped, the route guidance mode remains active.

To display the next simulated turning manoeuvre on the map, select the **Next Manoeuvre** menu item.

## Destination input

The **Destination** application provides different options to set a destination for route guidance.

Press the **DEST** button (when route guidance is not active) to display the **Destination Entry** menu.



## Manual address entry

### Address Entry menu

Press the **DEST** button to display the **Destination Entry** menu and then select the **Address Entry** icon to display a mask for address entry.



Select the Country entry field. A list is displayed. Select the desired country.

Select the City/Postal entry field to display a keyboard. Enter the desired city name or postal code (see below).

Select the Street entry field to redisplay the keyboard. Enter the desired street name (see below).

You may then enter a house number or junction.

Select the House number or Junction entry field. The keyboard is redisplayed. Enter the desired number or street name (see below).

**Note**

The house number entered must have as many digits as the biggest house number in the respective street, e.g. if a street has 4275 house numbers and you wish to be guided to number eight, you must enter 0008.

If required, confirm your input.

A confirmation menu is displayed. Select the **Start Guidance** menu item to start route guidance.

**Keyboard**

Depending on the function selected, the keyboards may be displayed differently.



To change the letter arrangement on the letter keyboard, select the **ABC** screen button on the left side of the keyboard. The letters are now arranged in alphabetical order.

To enter a character sequence, successively select the desired characters.

**Note**

When entering an address, the keyboard uses an intelligent spelling function which automatically blocks out characters that cannot occur next in the respective character sequence.

To enter special characters not available on the letter keyboard, select the **ÄÖ** screen button at the right side of the letter keyboard. The special characters keyboard is displayed. Select the desired character.

To enter numbers or symbols, select the **Sym** screen button at the right side of the special characters keyboard. The symbols keyboard is displayed. Select the desired character.

To redisplay the letter keyboard, select the **ABC** screen button at the right side of the symbol keyboard. This way you may toggle between the three keyboards.

To delete characters already entered, select the **Delete** screen button at the right side of the respective keyboard or press the **BACK** button.

When entering an address, a list of matching entries is automatically displayed as soon as the number of matching entries found in the address memory is equal to or less than six.

To manually display a list of matching entries for the current input, select the respective **List** screen button at the bottom of the keyboard.

To display the last five entries made, select the **Last 5** screen button at the bottom of the keyboard.

Select the desired entry from the list.

If required, select the confirmation button displayed at the bottom of the keyboard.

## Points of Interest

A point of interest is a specific location that might be of general interest, e.g. a petrol station, parking area or restaurant.

The data stored within the Infotainment system contains a great number of predefined POIs which are indicated by symbols on the map.

These POIs may be selected as destinations for route guidance.

## Search menu

A POI may be selected using different search masks.

Press the **DEST** button to display the **Destination Entry** menu and then select the **Points of Interest** icon to display the **POI List** menu.

Select **Category**., **Name**.: or **Telephone number**. The respective search mask is displayed.



Fill out the entry fields in the respective search mask.

## Category search mask

Select the Location entry field to display a list. Select the desired option.

Select the Category entry field to display a POI category list. Select the desired category and then a subcategory from the list.

Select the Sort Method entry field to display the respective submenu. Select **By Distance** or **By Name**.

Select the **Search** screen button at the bottom of the screen. A list of POIs or POI categories is displayed corresponding to the criteria entered. Select the desired menu item.

## Name search mask

Select the Country entry field to display a list of all available countries. Select the desired country.

To specify the location, select the entry field for the city or postal code. A keyboard is displayed. Enter the desired name or number.

Select the Sort Method entry field to display the respective submenu. Select **By Distance** or **By Name**.

Select the **Search** screen button at the bottom of the screen. The keyboard is redisplayed.

Enter the name of the desired POI.

### Telephone number search mask

Select the Country entry field to display a list of all available countries. Select the desired country.

Select the Sort Method entry field to display the respective submenu. Select **By Distance** or **By Name**.

Select the Number entry field to display a keypad. Enter the desired number.

When the respective search mask is filled out, a confirmation menu is displayed.

Select the **Start Guidance** menu item to start route guidance.

### Category lists

Press the **NAV** button and then the multifunction knob to display the **Navigation Menu**. Select **Nearby POIs** or **POIs Along Route**. A POI category list is displayed.

Select the desired category, subcategories and then POI.

A confirmation menu is displayed. Select the **Start Guidance** menu item to start route guidance.

### Previous Destinations

The last destinations selected or entered for route guidance are stored within the system.

Press the **DEST** button to display the **Destination Entry** menu and then select the **Previous Destinations** icon.

A list of the last destinations is displayed sorted in reverse chronological order.

Select the desired address from the list.

A confirmation menu is displayed. Select the **Start Guidance** menu item to start route guidance.

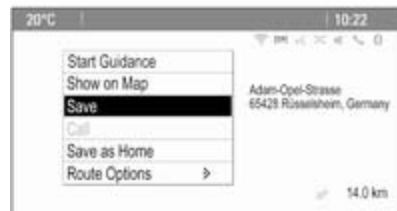
### Address Book

The **Address Book** provides local storage space for addresses entered in the navigation application.

#### Storing addresses in the address book

To store an address in the address book, press the **DEST** button to display the **Destination Entry** menu.

Enter or select the desired address. The confirmation menu is displayed.



Select the **Save** screen button. The **Address Book Entry** mask is displayed.



Depending on the information available, the different entry fields are already filled.

To enter or modify the name of the respective location, select the Name entry field. A keyboard is displayed. Enter the desired name and confirm your input.

To modify the address, select the Address entry field. The address entry mask is displayed. Make your changes and confirm your input.

To enter or modify the phone number, select the Number entry field. A keypad is displayed. Enter the desired number.

If activated ⇨ 37, the address book entries are indicated on the map by POI icons. To change the icon indicating an address entry, select the Icon entry field. A list of all POI icons available within the system is displayed.

Scroll through the list and select the desired icon.

Select the **Done** screen button at the bottom of the entry mask. The address is stored.

### Selecting addresses from the address book

Press the **DEST** button to display the **Destination Entry** menu and then select the **Address Book** icon. A list of all address book entries is displayed.



Select the desired entry.

A confirmation menu is displayed. Select the **Start Guidance** menu item to start route guidance.

### Editing addresses in the address book

Press the **DEST** button to display the **Destination Entry** menu and then select the **Address Book** icon. A list of all address book entries is displayed. Select the desired entry.

A confirmation menu is displayed. Select the **Edit** menu item to display the **Address Book Entry** mask.

Make your changes and confirm your input. The changes are stored in the address book.

### Phone Book

Addresses stored in the phone book of the mobile phone connected may be selected as destinations.

Press the **DEST** button to display the **Destination Entry** menu and then select the **Phone Book** icon. The **Phone Book Search** menu is displayed.

Select the desired first letter range to display a preselection of the telephone book entries you wish to be

displayed. The phone book jumps to the position of the letter range selected.



Select the desired entry in the telephone book to display the address saved under this entry. Select the address.

### Note


When the Infotainment system cannot find a valid address, you are prompted with a message.

A confirmation menu is displayed. Select the **Start Guidance** menu item to start route guidance.

## Destination selection from the map

Destinations (addresses or POIs) may also be set via the map.

Press the **NAVI** button to display the map.

Use the Eight-way switch to centre the map around the desired destination. A red  symbol is indicated on the map and the corresponding address is displayed on a label.



Press the multifunction knob to activate the **Go** screen button.

A confirmation menu is displayed. Select the **Start Guidance** menu item to start route guidance.

### Note

If there is more than one POI located at the map position selected, this is indicated on the label. Activating the **Go** screen button then opens a list for selection.

## My Home

You can permanently store your home address in the system.

### Storing the home address

Press the **DEST** button to display the **Destination Entry** menu.

Enter your home address.

A confirmation menu is displayed. Select the **Save as Home** menu item. You are prompted with a message. Confirm the message to save your home address.

### Note

The home address is also stored in the address book.

### Selecting the home address

Press the **DEST** button to display the **Destination Entry** menu and then select the **My Home** icon.

Route guidance to the home address is started immediately.

### Waypoint routes

When a destination has been entered and route guidance is active, intermediate destinations (waypoints) may be added to the route.

To set up a waypoint route during active route guidance, press the **DEST** button to open the **Route Menu** and then select the **Destination List** menu item. A submenu is displayed.



### Adding waypoints

To add an intermediate destination, select the **Add Waypoint** menu item. The waypoint list is displayed.



Select the **Add** screen button at the position where you wish to add a waypoint. The **Destination Entry** menu is displayed.

Enter or select the desired destination. The confirmation menu is displayed.

Select the **Add** menu item. The route is recalculated and the waypoint list is redisplayed with the intermediate destination at the position selected.

### Note

Up to four destinations may be stored in a waypoint list.

### Deleting waypoints

To delete a waypoint, select the **Delete Waypoint** menu item. The waypoint list is displayed.

Select the **Delete** screen button next to the waypoint you wish to delete.

The waypoint is deleted and the waypoint list is redisplayed.

To delete the whole list and end route guidance, select the **Delete All Destinations** screen button.



### Moving waypoints

To change the order of the waypoints in the route, select the **Sort Waypoints** screen button.

Select the **Move** screen button next to the waypoint you wish to move. The **Add Waypoint** menu is displayed.

Select the **Add** screen button at the position where you wish to drop the respective waypoint.

The route is recalculated and the order of the waypoints in the waypoint list is changed.

### Favourite Routes

#### Storing waypoint routes

A waypoint route created (see above) may be saved as favourite route.

During an active waypoint route, press the **DEST** button to open the **Route Menu** and then select the **Destination List** menu item. A submenu is displayed.

Select **Save as favourite route**. A keyboard is displayed.

Enter a name for the favourite route and confirm your input.

The waypoint route is saved.

#### Creating new favourite routes

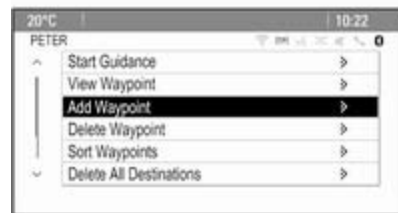
Press the **DEST** button to display the **Destination Entry** menu and then select the **Favourite Routes** icon to display the **Favourite Route** menu.

Select the **New Favourite Route** menu item. A keyboard is displayed.



Enter a name for the favourite route and confirm your input. The **Favourite Route** menu is redisplayed.

Select the desired favourite route. A menu is displayed.



Create a waypoint route (see above).

To change the name of the respective favourite route, select the **Edit Name** menu item. The keyboard for name entry is displayed. Enter the desired name and confirm your input.

To delete the respective favourite route, select the **Delete Favourite** menu item. The favourite route is deleted and the **Favourite Route** menu is redisplayed.

### Selecting a favourite route

Press the **DEST** button to display the **Destination Entry** menu and then select the **Favourite Routes** icon to display a list of the favourite routes saved.

Select the desired route from the list. The route confirmation menu is displayed.

To start route guidance, select the **Start Guidance** menu item.

### Latitude / Longitude

The GPS coordinates of a desired location may be used to set a destination.

Press the **DEST** button to display the **Destination Entry** menu and then select the **Latitude** menu item.

Select the Latitude entry field to display the **Geolocation Entry** menu.



Repeatedly press the multifunction knob to adjust the first setting as desired.

Turn the multifunction knob to move to the next value to be set.

Proceed like this to set all values.

Select the **BACK** button to return to the next higher menu level.

Adjust the longitude values as described.

When all GPS coordinates are entered, select the **Search** screen button at the bottom of the screen.

A confirmation menu is displayed.

To start route guidance, select the **Start Guidance** menu item.

### Deleting saved destinations

To delete destinations stored in the system, press the **CONFIG** button, select the **Navigation Settings** menu item and then **Delete Saved Destinations**. A submenu is displayed.

Activate the menu items of the storage location you wish to be cleared.

Select the **Delete** screen button. The selected storage locations are cleared.

## Guidance

### Starting and cancelling route guidance

#### Starting route guidance

Enter or select the desired address.

A confirmation menu is displayed.

Select the **Start Guidance** menu item to start route guidance.



### Cancelling route guidance

When route guidance is active, press the **DEST** button to display the **Route Menu**.

Select the **Cancel Route** menu item to cancel the current navigation session.

### Guidance instructions

Route guidance is provided by voice prompts and visual instructions on the map (if activated).

### Voice prompts

Navigation voice prompts announce which direction to follow, when approaching an intersection at which you need to turn.

Press the **CONFIG** button and then select the **Navigation Settings** menu item.

Select the **Voice Prompt** menu item to display the respective submenu.

If you wish the system to audibly indicate the next turning manoeuvre, activate **Navigation Voice Prompts**.

If you wish traffic alerts to be read out, activate **Traffic Alert Prompts**.

To adjust the volume during voice prompts, select the **Navigation Volume** menu item. The respective submenu is displayed.

To adjust the volume of voice prompts, select **Announcement** and then adjust the setting as desired.

To adjust the volume of the audio source possibly playing in the background, select **Background** and then adjust the setting as desired.

Select **Volume Test** to get an audio example of the settings.

### Guidance alerts

Guidance alerts show in a close-up view of the respective map section which direction to follow when approaching an intersection at which you need to turn.

Press the **CONFIG** button and then select the **Navigation Settings** menu item.

Select the **Guidance Alert** menu item to display the respective submenu.

If you wish the display to automatically show the map when approaching the next turning manoeuvre, activate **Guidance Alert in Primary**.

If you wish turning manoeuvres to be displayed in a close-up view, activate **Guidance Alert in Map**.

## Traffic incidents

The TMC traffic information system receives all current traffic information from TMC radio stations. This information is included in the calculation of a route.

### Traffic settings

Press the **CONFIG** button and then select the **Navigation Settings** menu item.

Select the **Traffic Settings** menu item to display the respective submenu.

To use the TMC traffic information system, activate the **Traffic Events** menu item.

### Recalculation of an active route

If a traffic problem occurs during active route guidance, the route may be changed.

Select **Alert if better route is available** to display the respective submenu.

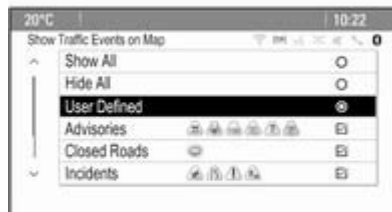
If you wish the route to be constantly adapted to the current traffic situation, activate **Route Based on Traffic Conditions**.

Choose between **Automatic Recalculation** and **Recalculation after Confirmation** of a corresponding message.

### Traffic incidents on the map

Traffic incidents may be indicated on the map by corresponding symbols.

Select **Show Traffic Events on Map** to display the respective submenu.



Select the desired option.

If **User Defined** is activated, scroll through the list and activate the traffic incidents categories you wish to be displayed.

## TMC stations

The TMC stations broadcasting traffic information, may be set automatically or manually.

Select the **Traffic Stations** menu item to display a selection mask.

Select the Mode entry field to display the respective submenu. Select the desired option.

If **Manual Station Selection** is chosen, a TMC station needs to be set.

Select the Station entry field to display the **Traffic Station List**.

Select the desired station.

## Traffic incidents lists

When route guidance is active, press the **NAVI** button and then press the multifunction knob to display the **Navigation Menu**. Scroll through the list and select the **Traffic** menu item.

To display a list of all traffic events known for the area around the current vehicle location, select the **All Traffic Events** menu item.

To display a list of the traffic events concerning the current route, select the **Traffic Events on Route** menu item.

The traffic incidents lists may be sorted in different ways.

Select the **Traffic Settings** menu item in the **Traffic** menu and then **Sort Method**. The respective submenu is displayed.

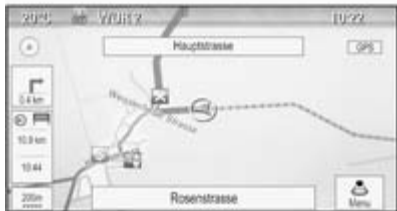
Activate the desired option.

## Route tracking

The bread crumbs function allows tracking of the roads already taken in a route.

Press the **CONFIG** button and then select the **Navigation Settings** menu item. Select the **Bread Crumbs** menu item to display the respective menu.

To start a tracking session, activate the **Record** menu item. The route taken is recorded and displayed as dotted line on the map.



To delete the bread crumbs already dropped in an active tracking session, select the **Delete** screen button. You are prompted with a message. Confirm the message to delete all bread crumbs.

To end the tracking session, deactivate the **Record** menu item. A keyboard is displayed.

Enter a name for the respective tracking session and select the **Done** screen button. The session is stored in the **Saved** list.

To display a list of all tracking sessions, select the **Saved** screen button. Select the desired tracking session to display the **Bread Crumb Details** menu.

To change the name of the respective tracking session, select the **Edit Name** menu item. A keyboard is displayed. Enter the desired name and select the **Done** screen button.

Select the **Load** menu item to display the bread crumb main menu. If you wish the respective tracking session to be constantly displayed on the map, activate the **Display** menu item.

To directly display the whole tracking session in the respective map section, select the **Show on Map** menu item.

To delete the respective tracking session, select the **Delete** menu item.

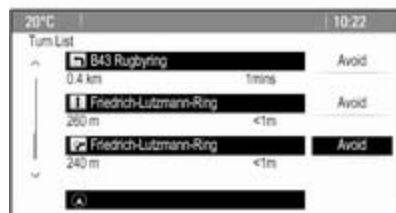
## Routing

When a route has been calculated, you may manually change certain parts or recalculate the whole route.

## Turn List

The **Turn List** displays all streets and turning manoeuvres on the calculated route starting from the current location.

Press the **DEST** button and then select the **Turn List** menu item. The turn list is displayed.



To exclude certain streets from the route, select the **Avoid** screen button next to the respective street.

The route is recalculated and the respective street is excluded.

## Avoid List

When streets have been excluded from the original route, they are displayed in the **Avoid List**.

Press the **DEST** button and then select the **Avoid List** menu item to display the respective submenu.

To display all streets avoided, select the **View List** menu item.

To delete all avoidances and return to the original route, select the **Delete All Items** menu item.

## Detour

Press the **DEST** button and then select the **Detour** menu item.

To change the route for a certain distance, select the **Detour By Distance** menu item. A menu listing different distances is displayed.

Select the desired distance. The route is recalculated accordingly.

To block the whole route, select the **Detour Complete Route** menu item. The original route is blocked and a new route to the desired destination is calculated.

## Exit list

To display a list of the next exits and motorway stations while driving on a motorway, press the **NAV** button and then press the multifunction knob to display the **Navigation Menu**.

Scroll through the list and select the **Exit List** menu item.

## Route options

When route guidance is active, press the **DEST** button and then select the **Route Options** menu item.

A list of route calculation options and road types is displayed.

To define by what criteria a route may be calculated, activate one of the options: **Fastest** for the fastest route (in time), **Shortest** for the shortest route (in distance) or **Eco** for the route with the lowest fuel consumption.

To define which road types may be included in the calculation of the route, activate the desired options: highways, tollroads, ferries, etc.

## Speech recognition

General information .....	54
Usage .....	55

### General information

The speech recognition of the Infotainment system enables you to operate various functions of the Infotainment system via voice input. It recognises commands and numeric sequences independently of the relevant speaker. The commands and numeric sequences can be spoken without a pause between the individual words.

In the event of incorrect operation or commands, the speech recognition gives visual and/or acoustic feedback and requests you to re-enter the desired command. Apart from this, the speech recognition acknowledges important commands and will enquire if necessary.

In general, there are different ways to speak commands for completing the tasks. Most of them, except destination entry and voice keypad, can be completed in a single command.

If the action takes more than one command to be performed, proceed as follows:

In the first command, you indicate the type of action to be performed, e.g. "Navigation destination entry". The system replies with prompts that lead you through a dialogue for entering the necessary information. For example, if a destination for route guidance is needed, say "Navigation" or "Destination entry".

#### Note

To ensure that conversations inside the vehicle do not lead to unintentional triggering of the system functions, the speech recognition does not start until it has been activated.

### Important information

#### Language support

- Not all languages available for the display of the Infotainment system are also available for the speech recognition.
- If the currently selected display language is not supported by the speech recognition, speech recognition is not available.

In such a case you need to select another language for the display if you want to control the Infotainment system via voice input. Changing the display language, see "Language" in chapter "System settings" ⇨ 19.

### Address input for destinations in foreign countries

In case you want to enter the address of a destination located in a foreign country via voice input, you need to change the language of the Infotainment display to the language of the foreign country.

E.g. if the display is currently set to English and you want to enter the name of a city located in France, you need to change the display language to French.

Exceptions: If you want to enter addresses in Belgium, you may optionally change the display language to French or Dutch. For addresses in Switzerland you may optionally change the display language to French, German, or Italian.

For changing the display language, see "Language" in chapter "System settings" ⇨ 19.

### Input order for destination addresses

The order in which the parts of an address need to be entered using the speech recognition system is dependent on the country where the destination is located.


- Austria, Germany:  
    <city> <street> <house number>
- Belgium, France, Great Britain:  
    <house number> <street> <city>
- Italy, Netherlands, Portugal,  
    Russia, Spain, Switzerland:  
    <street> <house number> <city>


## Usage

### Activating speech recognition

#### Note

Speech recognition is not available during an active phone call.

Press the  button on the right side of the steering wheel.

The audio system mutes, the  symbol on the display is highlighted, and a voice output message prompts you to say a command.

As soon as the speech recognition is ready for voice input, a beep is heard.

You can now say a voice command to directly initiate a system function (e.g. playing a radio station), or to start a dialogue sequence with several dialogue steps (e.g. entering a destination address), see "Operation via speech commands" further below.


After a dialogue sequence is finished, the speech recognition is deactivated automatically. To initiate another dialogue sequence, you must activate the speech recognition again.

### Adjusting the volume of voice prompts

Press the + or – buttons on the right side of the steering wheel.




### Interrupting a voice prompt

As an experienced user, you can interrupt a voice prompt by briefly pressing the  button on the steering wheel.

A beep is heard immediately, and a command can be stated without having to wait.

### Cancelling a dialogue sequence

There are several possibilities to cancel a dialogue sequence and to deactivate the speech recognition:

- Say "**Cancel**" or "**Exit**".
- Press the  button on the right side of the steering wheel.


In the following situations a dialogue sequence is automatically cancelled:

- If you do not say any commands for some time (by default you are prompted three times to say a command).
- If you say commands that are not recognised by the system (by default you are prompted three times to say a correct command).

### Operation via speech commands

The speech recognition can understand commands that are either naturally stated in sentence form, or direct commands stating the application and the task.

For best results:

- Listen for the voice prompt and wait for the beep before saying a command or replying.
- Say "**Help**" if you want to listen again to the help prompt for the current dialogue step.
- The voice prompt can be interrupted by pressing the  button again
- Wait for the beep and then speak the command naturally, not too fast, not too slow. Use short and direct commands.

Usually phone and audio commands can be spoken in a single command. For example, "Call David Smith at work", "Play" followed by the artist or

song name, or "Tune to" followed by the radio frequency and the waveband.

Navigation destinations, however, are too complex for a single command. First, state "Navigation" and then, e.g. "Address" or "Point of Interest". The system responds with requesting more details.

After saying "Point of Interest", only major chains may be selected by name. Chains are businesses with at least 20 locations. For other POIs, say the name of a category, e.g. "Restaurants", "Shopping centres", or "Hospitals".

Direct commands are easier understood by the system, e.g. "Call 01234567".

If you say "Phone", the system understands that a phone call is requested and responds with respective questions until enough details are gathered. If the phone number has been saved with a name and a place, the direct command should include both, for example "Call David Smith at work"

### Selecting list items

When a list is displayed, a voice prompt asks to confirm or select an item from that list. A list item may be manually selected, or by speaking the line number of the item.

The list on a speech recognition screen functions the same as a list on other screens. Manually scrolling the list on a screen during a speech recognition session suspends the current speech recognition event and plays a prompt like "Make your selection from the list using the manual controls, or press the back button on the faceplate to try again".


If no manual selection is made within 15 seconds, the speech recognition session terminates, you are prompted with a message, and the former screen is redisplayed.

### The "Back" command

To return to the previous dialogue step, alternatively: say "**Back**", or press the **BACK** button on the instrument panel.

### The "Help" command

After saying "**Help**", the help prompt for the current dialogue step is read aloud.

To interrupt the help prompt, press the  button again. A beep is heard. You may say a command.

## Phone

General information .....	58
Bluetooth connection .....	59
Emergency call .....	60
Operation .....	61
Text messages .....	64
Mobile phones and CB radio equipment .....	66

### General information

The Phone portal provides you with the possibility of having mobile phone conversations via a vehicle microphone and the vehicle loudspeakers as well as operating the most important mobile phone functions via the Infotainment system in the vehicle. To be able to use the Phone portal, the mobile phone must be connected with it via Bluetooth.

The Phone portal can be operated optionally via the speech recognition system.

Not all Phone portal functions are supported by every mobile phone. The possible phone functions depend on the relevant mobile phone and network provider. You will find further information on this in the operating instructions for your mobile phone or you can enquire about them with your network provider.

### Important information for operation and traffic safety

#### Warning

Mobile phones have effects on your environment. For this reason safety regulations and directions have been prepared. You should be familiar with the related directions before you use the telephone function.

#### Warning

Use of the hands-free facility while driving can be dangerous because your concentration is reduced when telephoning. Park your vehicle before you use the hands-free facility. Follow the stipulations of the country in which you find yourself at present.

Do not forget to follow the special regulations that apply in specific areas and always switch off the mobile phone if the use of mobile

phones is prohibited, if interference is caused by the mobile phone or if dangerous situations can occur.

## Bluetooth

The Phone portal is certified by the Bluetooth Special Interest Group (SIG).

You will find further information about the specification on the Internet at <http://www.bluetooth.com>

## Bluetooth connection

Bluetooth is a radio standard for the wireless connection of e.g. mobile phones, iPod/iPhone models, or other devices.

To be able to set up a Bluetooth connection to the Infotainment system, the Bluetooth function of the Bluetooth device must be activated. For further information, please consult the user guide of the Bluetooth device.


Via the **Bluetooth** menu, pairing (PIN code exchange between Bluetooth device and Infotainment system) and connecting of the Bluetooth devices to the Infotainment system are carried out.

## Important information

- Up to five devices can be paired to the system.
- Only one paired device can be connected to the Infotainment system at a time.
- Pairing normally only needs to be carried out once, unless the device is deleted from the list of paired devices. If the device has been connected previously, the Infotainment system establishes the connection automatically.
- Bluetooth operation considerably drains the device's battery. Therefore, connect the device to the power outlet for charging.

## Bluetooth menu

To open the **Bluetooth** menu, you may optionally:

- Press the **PHONE** button. Select the **Phone Settings** menu item and then **Bluetooth**.
- Press the **CONFIG** button. Select the **Phone Settings** menu item and then **Bluetooth**.
- Press the  button and select the **Config** icon. Select the **Phone Settings** menu item and then **Bluetooth**.

The menu items **Device list** and **Pair device** are displayed.

## Pair device

To initiate the pairing process on the Infotainment system, select the **Pair device** menu item. A message with a four-digit Infotainment system code is displayed.

Initiate the pairing process on the Bluetooth device. If required, enter the Infotainment system code on the Bluetooth device.

A six-digit PIN code for the pairing process is displayed on the Infotainment system.

To confirm the pairing process:

- If SSP (secure simple pairing) is supported:

Compare the PIN codes displayed on the Infotainment system and on the Bluetooth device (if demanded) and confirm the message on the Bluetooth device.

- If SSP (secure simple pairing) is not supported:

Enter the PIN code on the Bluetooth device and confirm your input.

The devices are paired and the phone main menu is displayed.

The phone book and call lists (if available) are downloaded from the Bluetooth device.

If required, confirm the corresponding message on the Bluetooth device.

## Device list

The device list contains all Bluetooth devices paired to the Infotainment system.



If a new device is paired, it is displayed in the device list.

## Connecting a device

Select the device you wish to connect. A submenu is displayed.

Select the **Select** screen button.

The device previously connected is disconnected and this device is connected.

## Deleting a device

Select the device you wish to delete. A submenu is displayed.

Select the **Delete** screen button.

The device is deleted.

## Emergency call

### ⚠ Warning

Connection setup cannot be guaranteed in all situations. For this reason you should not rely exclusively on a mobile phone when a vitally important communication (e.g. a medical emergency) is concerned.

In some networks it may be necessary for a valid SIM card to be properly inserted in the mobile phone.

### **Warning**

Bear in mind that you can make and receive calls with the mobile phone, if it is in a service area with a sufficiently strong signal. Under certain circumstances emergency calls cannot be made on all mobile phone networks; it is possible that they cannot be made when certain network services and/or telephone functions are active. You can enquire about this with the local network operators.

The emergency call number can differ depending on the region and country. Please enquire beforehand about the correct emergency call number for the relevant region.

### **Making an emergency call**

Dial the emergency call number (e.g. 112).

The telephone connection to the emergency call centre is set up.

Answer when the service personnel questions you about the emergency.

### **Warning**

Do not end the call until you are requested to do so by the emergency call centre.

## **Operation**

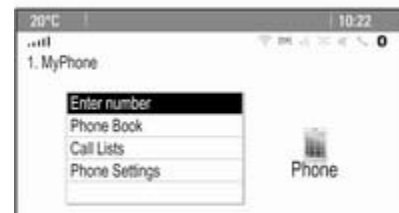
As soon as a connection via Bluetooth has been set up between your mobile phone and the Infotainment system, you can also operate many functions of your mobile phone via the Infotainment system.

After setting up a connection between the mobile phone and the Infotainment system, the mobile phone data is transmitted to the Infotainment system. This can take some time depending on the phone model. During this period, operation of the mobile phone is possible via the Infotainment system only to a limited extent.

Not every telephone supports all functions of the phone application. Therefore, deviations from the range of functions described are possible.

### **Phone main menu**

To display the phone main menu, press the **PHONE** button. The following screen is displayed (if a mobile phone is connected).



### **Initiating a phone call**

#### **Entering a number**

Press the **PHONE** button and then select the **Enter number** menu item. A keypad is displayed.



Enter the desired number.

Select the **Del** screen button or press the **BACK** button to delete the last digit entered.

Select the **►** or **◄** screen button to move the cursor within the number already entered.

To start dialling, select the **OK** screen button.

### Note

You may access the phone book from the keypad by pressing the **PB** button.

## Phone book

Press the **PHONE** button and then select the **Phone Book** menu item. The **Phone Book Search** menu is displayed.



Select the desired first letter range to display a preselection of the telephone book entries you wish to be displayed. The phone book jumps to the position of the letter range selected.



Select the desired entry in the telephone book to display the numbers saved under this entry.

Select the desired number to start dialling.

## Phone book sorting

The phone book may be sorted by last name or by first name.

To change the sorting order, select the **PHONE** button and then the **Phone Settings** menu item.

Select **Sort Order** to display the respective submenu.

Activate the desired option.

### Call lists

Press the **PHONE** button and then select the **Call Lists** menu item. The **Call Lists** menu is displayed.



Select the desired call list. Depending on the list selected, the last incoming, outgoing or missed calls are displayed.

Select the desired entry in the call list to start dialling.

### Incoming calls

When a call comes in, a message is displayed on the screen.

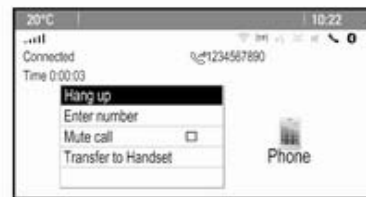


To take the call, select the **Answer** screen button.

To reject the call, select the **Decline** screen button.

### Functions during a phone call

When a call is active, the in-call view is displayed.



### Ending a phone call

To end the call, select the **Hang up** screen button.

### Muting a call

To temporarily mute the microphone, activate the **Mute call** screen button.

Deactivate the **Mute call** screen button to unmute the microphone.

### Transferring to handset

Select the **Transfer to Handset** menu item to transfer the call to the mobile phone. The **Private Call** menu is displayed.



To transfer the call back to the Infotainment system, select the **Transfer call** menu item in the **Private Call** menu.

## Second phone call

### Initiating a second phone call

While a call is active, select the **Enter number** menu item in the in-call view. The keypad is displayed. You may enter a number or select a number from the phone book, see above.

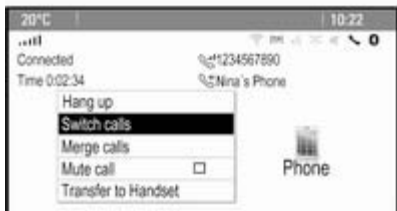
### Second incoming phone call

When a second call comes in, a message is displayed at the bottom of the screen.

Select the desired option.

If the call is taken, the first call is put on hold and the second call becomes active.

Both calls are displayed in the in-call view.



To switch between the calls, select the **Switch calls** menu item.

### Conference call

Select the **Merge calls** screen button to activate both calls at the same time.

The **Merge calls** screen button changes to **Detach call**.

To end a conference call, select the **Detach call** screen button.

### Ending phone calls

In a conference call, select the **Hang up** screen button to end both phone calls.

## Text messages

As soon as a connection via Bluetooth has been set up between your mobile phone and the Infotainment system, you can operate the messages inbox of your mobile phone via the Infotainment system.

Not every phone supports the text messages function of the Infotainment system.

### Activating the messages application on the mobile phone

The transmission of text message data to the Infotainment system must be activated on the mobile phone.

In the Bluetooth menu of your mobile phone, select the name of the paired Infotainment system to display the respective submenu.

To display the text messages in the messages application of the Infotainment system, activate the respective function in the submenu on the mobile phone.

The **Messages** icon in the Home menu of the Infotainment system is then selectable.

### Incoming text message

When a new text message is received, you are prompted with a message indicating the name or number of the sender.

Select one of the options in the message.

#### Listen

If you wish the system to read out the message, select the **Listen** screen button.

#### View

To display the message on the screen, select the respective screen button.

#### Note

Messages are only displayed on the screen when the vehicle is parked.

#### Dismiss

To dismiss the message, select the respective screen button.

### Reply

To directly answer the message, select the **Reply** screen button. A list of predefined messages is displayed.

Select the desired message and confirm your input.

The message is sent.


#### Note

New predefined messages may be created in the settings menu.

#### Call

To call the sender of the text message, select the **Call** screen button.

### Inbox

Press the  button and then select the **Messages** icon to display the respective menu.

Select the **Inbox** menu item to display a list of all inbox messages.




Select the desired message. The message is displayed on the screen.

#### Note

Messages are only displayed on the screen when the vehicle is parked.

If desired, select one of the options at the bottom of the screen (see above).

### Settings

Press the  button and then select the **Messages** icon to display the respective menu.

Select the **Settings** menu item to display the respective submenu.

Adjust the settings as desired.

## Mobile phones and CB radio equipment

### Installation instructions and operating guidelines

The vehicle specific installation instructions and the operating guidelines of the mobile phone and handsfree manufacturer must be observed when installing and operating a mobile telephone. Failure to do so could invalidate the vehicle type approval (EU directive 95/54/EC).

Recommendations for fault-free operation:

- Professionally installed exterior antenna to obtain the maximum range possible,
- Maximum transmission power 10 watts,
- Installation of the phone in a suitable spot, consider relevant Note in the Owner's Manual, chapter **Airbag system**.

Seek advice on predetermined installation points for the external antenna or equipment holder and ways of using devices with a transmission power exceeding 10 watts.

Use of a handsfree attachment without external antenna with mobile telephone standards GSM 900/1800/1900 and UMTS is only permitted if the maximum transmission power of the mobile telephone is 2 watts for GSM 900 or 1 watt for the other types.

For reasons of safety, do not use the phone while driving. Even use of a handsfree set can be a distraction while driving.

### Warning

Operation of radio equipment and mobile telephones which fail to meet above mentioned mobile telephone standards is only permitted using an antenna located outside of the vehicle.

### Caution

Mobile telephones and radio equipment may lead to malfunctions in the vehicle electronics when operated inside the vehicle with no exterior antenna, unless the above mentioned regulations are observed.



# Index

## A

Activating AUX.....	32
Activating Bluetooth music.....	32
Activating CD player.....	29
Activating radio.....	22
Activating the Infotainment system.....	12
Activating the navigation system.....	37
Activating the phone portal.....	61
Activating USB audio.....	32
Activating USB picture.....	33
Address book.....	41
Audio CUE volume.....	18
Audio files.....	30
Autostore lists.....	23
Retrieving stations.....	23
Storing stations.....	23
Auto volume.....	18
AUX.....	30

## B

BACK button.....	14
Balance.....	17
Basic operation.....	14
Bass.....	17
Bluetooth connection.....	59
Bluetooth music.....	30
Bread crumbs.....	49

## C

Category list.....	22
CD player.....	28
Chime volume.....	18
Control elements	
Infotainment system.....	6
Steering wheel.....	6
Control elements overview.....	6

## D

DAB.....	27
Date.....	19
Destination input.....	41
Digital audio broadcasting.....	27
Display.....	19
Displaying pictures.....	33

## E

Emergency call.....	60
EQ.....	17
Equaliser.....	17

## F

Factory defaults.....	19
Fader.....	17
Favourite lists.....	24
Retrieving stations.....	24
Storing stations.....	24
File formats.....	28

Audio files.....	30
Picture files.....	30

## G

General information 28, 30, 36, 54, 58	
AUX.....	30
Bluetooth music.....	30
CD.....	28
Infotainment system.....	4
Navigation.....	36
Phone portal.....	58
Radio.....	22
USB.....	30
Guidance .....	49

## H

Home address.....	41
Home Page.....	14, 19

## I

Infotainment control panel.....	6
---------------------------------	---

## K

Keyboard.....	41
---------------	----

## L

Language.....	19
---------------	----

## M

Maps.....	37
Maximum startup volume.....	18

Menu operation.....	14
Messages.....	14
Midrange.....	17
Mobile phones and CB radio equipment .....	66
Multifunction knob.....	14
Mute.....	12

## N

### Navigation

Address book.....	41
Bread crumbs.....	49
Coordinates.....	41
Current location.....	37
Destination input.....	41
Favourite routes.....	41
General settings.....	37
Guidance alerts.....	49
Home address.....	41
Keyboard.....	41
Map display.....	37
Map manipulation.....	37
POIs.....	41
Recent destinations.....	41
Route guidance.....	49
Route options.....	49
Route simulation.....	37
Route tracking.....	49
TMC stations.....	49
Traffic incidents.....	49

Turn list.....	49
Voice prompts.....	49
Waypoint trip.....	41
Navigation system.....	36
Navigation volume.....	18

## O

Operation.....	61
AUX.....	32
Bluetooth music.....	32
CD.....	29
Infotainment system.....	12
Menu.....	14
Navigation system.....	37
Phone.....	61
Radio.....	22
USB.....	32, 33

## P

Pairing.....	59
Phone	
Bluetooth.....	58
Bluetooth connection.....	59
Conference call.....	61
Emergency calls.....	60
Functions during a call.....	61
Phone book.....	61
Recent calls.....	61
Text messages.....	64
Phone book.....	41, 61

Phone call	
Initiating.....	61
Taking.....	61
Picture files.....	30
Pictures.....	33
Playing audio.....	32
POIs.....	41

## R

Radio	
Autostore lists.....	23
Category list.....	22
DAB.....	27
DAB announcements.....	27
Digital Audio Broadcasting.....	27
Favourite lists.....	24
Radio Data System.....	25
RDS.....	25
RDS Options menu.....	25
Regional.....	25
Retrieving stations.....	23, 24
Station list.....	22
Station search.....	22
Storing stations.....	23, 24
TP.....	25
Traffic Programme.....	25
Waveband selection.....	22
Radio data system (RDS) .....	25
Regionalisation.....	25

Route guidance.....	49
Route simulation.....	37

## S

Software update.....	19
Speech recognition.....	54
Station list.....	22
Station search.....	22
Switching the Infotainment system on.....	12
System settings.....	19
Display.....	19
Home Page.....	19
Language.....	19
Software.....	19
Time and Date.....	19

## T

TA.....	25
TA volume.....	18
Text messages.....	64
Theft-deterrent feature .....	5
Time.....	19
Time format.....	19
TMC.....	49
Tone settings.....	17
TP.....	25
Traffic incidents.....	49
Traffic programme.....	25

Treble.....	17
Turn list.....	49

## U

Usage.....	12, 22, 29, 37, 55
AUX.....	32
Bluetooth music.....	32
CD.....	29
Infotainment system.....	12
Navigation system.....	37
Phone.....	61
USB.....	32, 33
USB.....	30
Using apps.....	34

## V

Voice recognition.....	54
Volume	
Audio Cue volume.....	18
Auto volume.....	18
Chime volume.....	18
Maximum startup volume.....	18
Mute function.....	12
Navigation volume.....	18
Volume of traffic announcements.....	18
Volume settings.....	18

---

**W**

Waveband selection..... 22

Waypoint trip..... 41





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## Navi 900/600 / CD 400plus/400/300

Introduction .....	74
Radio .....	98
CD Player .....	114
AUX input .....	120
USB port .....	122
Digital picture frame .....	126
Navigation .....	129
Speech recognition .....	174
Phone .....	188
Index .....	206

## Introduction

General information .....	74
Theft-deterrent feature .....	75
Control elements overview .....	76
Usage .....	85
Basic operation .....	86
Tone settings .....	91
Volume settings .....	94
Personalisation .....	96

## General information

The Infotainment system provides you with state-of-the-art in-car infotainment.

For the AM, FM and DAB (if available) wavebands the radio is equipped with twelve automatically assignable channel presets. Furthermore, 36 channels can be allocated manually (waveband-independent).

The integrated audio player will entertain you with audio CDs and MP3/WMA CDs.

Furthermore, you can connect external data storage devices, e.g. iPod, MP3 player or USB stick (if USB port available), or a portable CD player to the Infotainment system as further audio sources.

The digital sound processor provides you with several preset equalizer modes for sound optimisation.

The navigation system (only Navi 600 / Navi 900) with dynamic route planning will reliably guide you

to your destination, and, if desired, will automatically avoid traffic jams or other traffic problems.

Optionally, the Infotainment system can be operated using controls on the steering wheel, or via the speech recognition system (if available).

In addition, the Infotainment system can be equipped with a mobile phone portal.

The well-thought-out design of the control elements, the clear displays and a large multifunction knob enable you to control the system easily and intuitively.

### Note

This manual describes all options and features available for the various Infotainment systems. Certain descriptions, including those for display and menu functions, may not apply to your vehicle due to model variant, country specifications, special equipment or accessories.

## Important information on operation and traffic safety

### Warning

The Infotainment system has to be used so that the vehicle can be driven safely at all times. If in doubt stop your vehicle and operate the Infotainment system while the vehicle is stationary.

### Warning

The usage of the navigation system (only Navi 600 / Navi 900) does not release the driver from the responsibility for a correct, vigilant attitude in road traffic. The related traffic regulations must always be followed.

Only make entries (e.g. addresses) with the vehicle stationary.

If a navigation instruction contradicts traffic regulations, the traffic regulations always apply.

### Warning

In some areas one-way streets and other roads and entrances (e.g. pedestrian zones) that you are not allowed to turn into are not marked on the map. In such areas the Infotainment system may issue a warning that must be accepted. Here you must pay particular attention to one-way streets, roads and entrances that you are not allowed to drive into.

## Radio reception

Radio reception may be disrupted by static, noise, distortion or loss of reception due to

- changes in distance from the transmitter,
- multi-path reception due to reflection,
- shadowing.

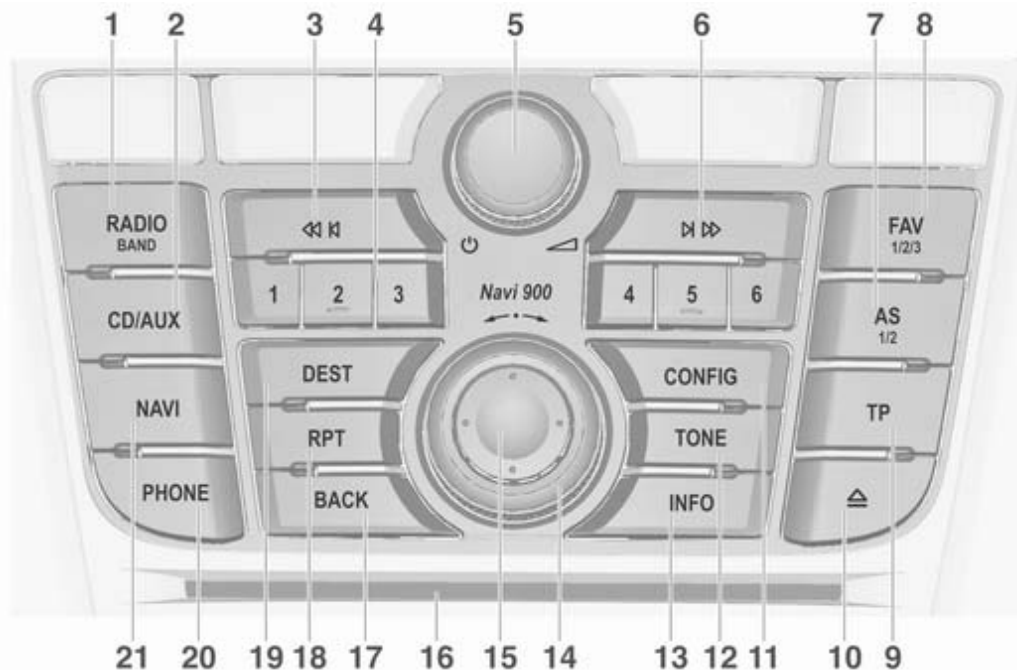
## Theft-deterrent feature

The Infotainment system is equipped with an electronic security system for the purpose of theft deterrent.

The Infotainment system therefore functions only in your vehicle and is worthless to a thief.

## Control elements overview

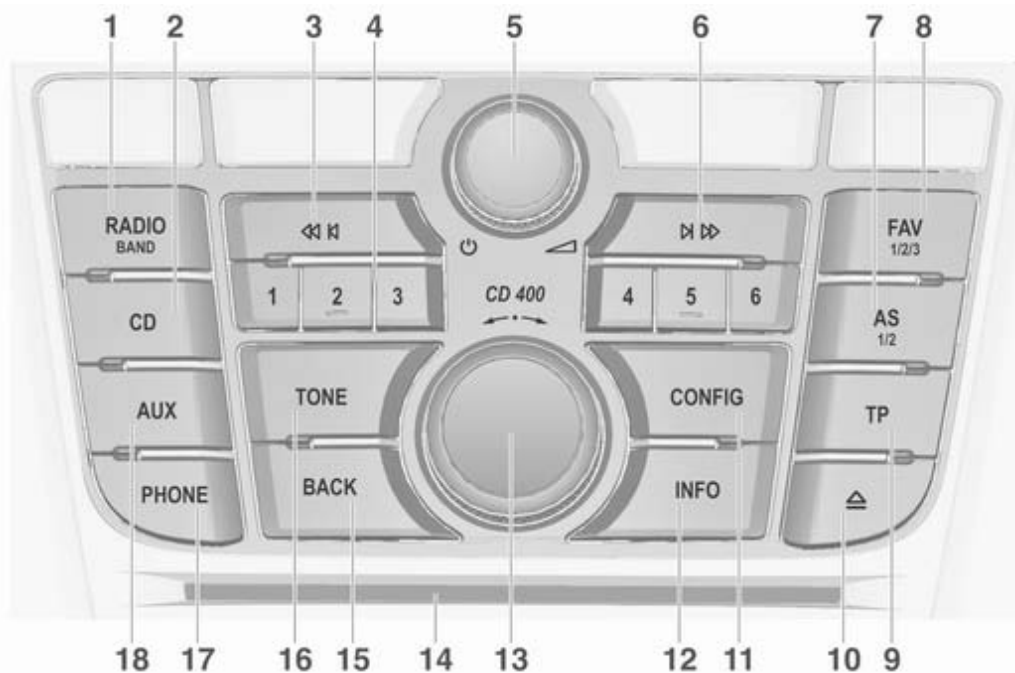
Navi 600 / Navi 900



<b>1</b>	<b>RADIO (BAND)</b> ..... 98	<b>6</b>	<b>Search forwards</b> ..... 98	<b>13</b>	<b>INFO</b> ..... 76
	Activate radio or change waveband ..... 98		Radio: search forwards ..... 98		Radio: information on the currently played station ..... 98
<b>2</b>	<b>CD/AUX</b> ..... 120		CD/MP3/WMA: skip track forwards ..... 116		CD/MP3/WMA: information on the currently inserted CD ..... 116
	Start CD/MP3/WMA replay or change audio source ..... 120	<b>7</b>	<b>AS (1/2)</b> ..... 99		Digital picture frame: shows currently selected picture/photo ..... 126
<b>3</b>	<b>Search backwards</b> ..... 98		Automatic memory levels (preset radio stations) ..... 99		Navigation: information, e.g., on the current location ..... 129
	Radio: search backwards ..... 98		Short press: select autostore list ..... 99	<b>14</b>	<b>Multifunction knob</b> ..... 86
	CD/MP3/WMA: skip track backwards ..... 116		Long press: save stations automatically ..... 99		Turn: mark menu options or set numeric values ..... 86
<b>4</b>	<b>Radio station buttons 1...6</b> .... 99	<b>8</b>	<b>FAV (1/2/3)</b> ..... 100		Press (the outer ring): select/activate the marked option; confirm set value; switch function on/off ..... 86
	Long press: save station ..... 99		Lists of favourites (preset radio stations) ..... 100	<b>15</b>	<b>Eight-way switch</b> ..... 130
	Short press: select station .... 99	<b>9</b>	<b>TP</b> ..... 107		Navigation: move display window in map view ..... 130
<b>5</b>	<b>ⓘ knob</b> ..... 85		Activate or deactivate radio traffic service ..... 107	<b>16</b>	<b>CD slot</b> ..... 116
	Press: switch on/off Infotainment system ..... 85	<b>10</b>	<b>CD ejection</b> ..... 116		
	Turn: adjust volume ..... 85	<b>11</b>	<b>CONFIG</b> ..... 94		
			System settings ..... 94		
		<b>12</b>	<b>TONE</b> ..... 91		
			Tone settings ..... 91		

<b>17</b>	<b>BACK</b> .....	86
	Menu: one level back .....	86
	Input: delete last character or entire entry .....	86
<b>18</b>	<b>RPT</b> .....	167
	Repeat last navigation message .....	167
<b>19</b>	<b>DEST</b> .....	130
	Navigation destination entry .....	130
<b>20</b>	<b>PHONE</b> .....	188
	Open telephone menu .....	198
	Activate/deactivate mute .....	85
<b>21</b>	<b>NAVI</b> .....	130
	Display map .....	130

## CD 400 / CD 400plus



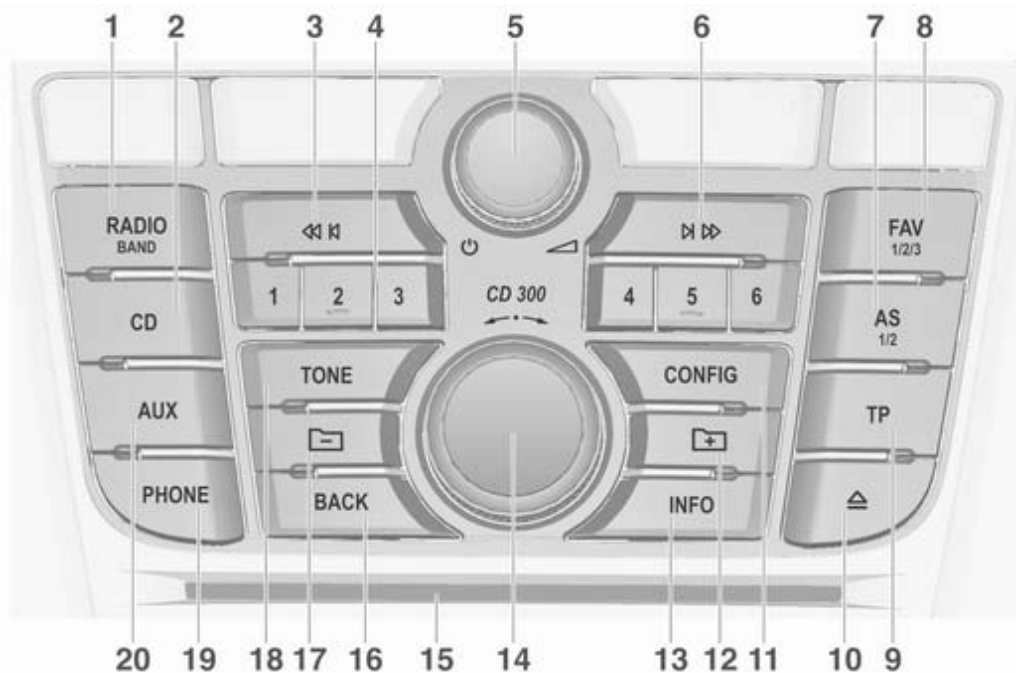


<b>1</b>	<b>RADIO (BAND)</b> ..... 98	<b>7</b>	<b>AS (1/2)</b> ..... 99	<b>12</b>	<b>INFO</b> ..... 76
	Activate radio or change waveband ..... 98		Automatic memory levels (preset radio stations) ..... 99		Radio: information on the currently played station ..... 98
<b>2</b>	<b>CD</b> ..... 120		Short press: select autostore list ..... 99		CD/MP3/WMA: information on the currently inserted CD ..... 116
	Start CD/MP3/WMA replay . 120		Long press: save stations automatically ..... 99	<b>13</b>	<b>Multifunction knob</b> ..... 86
<b>3</b>	<b>Search backwards</b> ..... 98	<b>8</b>	<b>FAV (1/2/3)</b> ..... 100		Turn: mark menu options or set numeric values ..... 86
	Radio: search backwards ..... 98		Lists of favourites (preset radio stations) ..... 100		Press: select/activate the marked option; confirm set value; switch function on/off .. 86
	CD/MP3/WMA: skip track backwards ..... 116	<b>9</b>	<b>TP</b> ..... 107	<b>14</b>	<b>CD slot</b> ..... 116
<b>4</b>	<b>Radio station buttons 1...6</b> .... 99		Activate or deactivate radio traffic service ..... 107	<b>15</b>	<b>BACK</b> ..... 86
	Long press: save station ..... 99		If Infotainment system switched off: display time and date ..... 107		Menu: one level back ..... 86
	Short press: select station .... 99	<b>10</b>	<b>CD ejection</b> ..... 116		Input: delete last character or entire entry ..... 86
<b>5</b>	<b>⏻ knob</b> ..... 85	<b>11</b>	<b>CONFIG</b> ..... 94	<b>16</b>	<b>TONE</b> ..... 91
	Press: switch on/off ..... 85		Open settings menu ..... 94		Tone settings ..... 91
	Infotainment system ..... 85			<b>17</b>	<b>PHONE</b> ..... 188
	Turn: adjust volume ..... 85				Open telephone main menu 198
<b>6</b>	<b>Search forwards</b> ..... 98				Activate mute ..... 85
	Radio: search forwards ..... 98				
	CD/MP3/WMA: skip track forwards ..... 116				

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18	AUX .....	120
	Change audio source .....	120

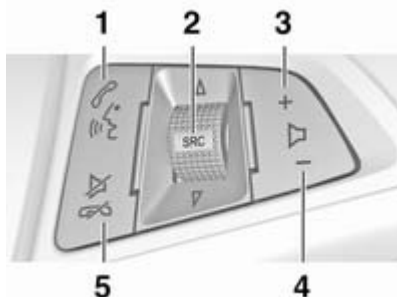
## CD 300



<b>1</b>	<b>RADIO (BAND)</b> ..... 98	<b>7</b>	<b>AS (1/2)</b> ..... 99	<b>13</b>	<b>INFO</b> ..... 76
	Activate radio or change waveband ..... 98		Automatic memory levels (preset radio stations) ..... 99		Radio: information on the currently played station ..... 98
<b>2</b>	<b>CD</b> ..... 120		Short press: select autostore list ..... 99		CD/MP3/WMA: information on the currently inserted CD ..... 116
	Start CD/MP3/WMA replay . 120		Long press: save stations automatically ..... 99	<b>14</b>	<b>Multifunction knob</b> ..... 86
<b>3</b>	<b>Search backwards</b> ..... 98	<b>8</b>	<b>FAV (1/2/3)</b> ..... 100		Turn: mark menu options or set numeric values ..... 86
	Radio: search backwards ..... 98		Lists of favourites (preset radio stations) ..... 100		Press: select/activate the marked option; confirm set value; switch function on/off .. 86
	CD/MP3/WMA: skip track backwards ..... 116	<b>9</b>	<b>TP</b> ..... 107	<b>15</b>	<b>CD slot</b> ..... 116
<b>4</b>	<b>Radio station buttons 1...6</b> .... 99		Activate or deactivate radio traffic service ..... 107	<b>16</b>	<b>BACK</b> ..... 86
	Long press: save station ..... 99		If Infotainment system switched off: display time and date ..... 107		Menu: one level back ..... 86
	Short press: select station .... 99	<b>10</b>	<b>CD ejection</b> ..... 116		Input: delete last character or entire entry ..... 86
<b>5</b>	<b>⏻ knob</b> ..... 85	<b>11</b>	<b>CONFIG</b> ..... 94	<b>17</b>	<b>MP3: folder level higher</b> ..... 116
	Press: switch on/off the Infotainment system ..... 85		Open settings menu ..... 94	<b>18</b>	<b>TONE</b> ..... 91
	Turn: adjust volume ..... 85	<b>12</b>	<b>MP3: folder level lower</b> ..... 116		Tone settings ..... 91
<b>6</b>	<b>Search forwards</b> ..... 98				
	Radio: search forwards ..... 98				
	CD/MP3/WMA: skip track forwards ..... 116				

<b>19</b>	<b>PHONE</b> .....	188
	Open telephone main menu .....	198
	Activate mute .....	85
<b>20</b>	<b>AUX</b> .....	120
	Change audio source .....	120

### Steering wheel audio controls



- 1** Short press: take phone call 188  
or dial number in call list ..... 198  
or activate speech  
recognition (if available) ..... 174  
Long press: show call list .... 198  
or deactivate speech  
recognition (if available) ..... 174
- 2** SRC (Source) ..... 85  
Press: select audio source .... 85

If radio active: turn  
upwards/downwards to  
select next/previous  
preset radio station ..... 98

If CD player active: turn  
upwards/downwards to  
select next/previous CD/  
MP3/WMA track ..... 116

If Phone portal active: turn  
upwards/downwards to  
select next/previous entry  
in call list ..... 198

If Phone portal active and  
calls waiting: turn  
upwards/downwards to  
switch between calls ..... 198

**3** Increase volume ..... 85

**4** Reduce volume ..... 85

**5** Short press: end/decline  
call ..... 198

or close call list ..... 198

or activate/deactivate mute ... 85

or deactivate speech  
recognition (if available) ..... 174

## Usage


### Control elements

The Infotainment system is operated via function buttons, multifunctional knobs and menus that are shown on the display.


Inputs are made optionally via:

- the central control unit in the instrument panel ↗ 76
- controls on the steering wheel ↗ 76
- the speech recognition system (if available) ↗ 174


### Switching the Infotainment system on or off

Press the  knob briefly. After switching on the last selected Infotainment source is active.

### Automatic switch-off

If the Infotainment system has been switched on using the  knob when the ignition was switched off, it will switch off again automatically after 30 minutes.

### Setting the volume

Turn the  knob. The current setting is shown on the display.

When the Infotainment system is switched on, the last selected volume is set, if that volume is lower than the maximum start up volume.

The following can be set separately:


- the maximum start up volume ↗ 94
- the volume of the traffic announcements ↗ 94
- the volume of the navigation messages (only Navi 600 / Navi 900) ↗ 130

### Speed compensated volume

When speed compensated volume is activated ↗ 94 the volume is adapted automatically to make up for the road and wind noise as you drive.

### Mute

Press the **PHONE** button (if Phone portal available: press for a few seconds) to mute the audio sources.

To cancel mute again: turn the  knob or press the **PHONE** button again (if Phone portal available: press for a few seconds).

### Volume limitation at high temperatures

At very high temperatures inside the vehicle the Infotainment system limits the maximum adjustable volume. If necessary the volume is decreased automatically.

## Modes of operation

### Radio

Press the **RADIO** button to open the radio main menu or to change between the different wavebands.

Press the multifunction knob to open a submenu with options for station selection.

Detailed description of the radio functions ↗ 98.

### Audio players

Press the **CD / AUX / CD/AUX** button to open the CD, USB, iPod or AUX menus (if available) or to swap between these menus.

Press the multifunction knob to open a submenu with options for track selection.

Detailed description of:

- CD player functions ↗ 116
- AUX input functions ↗ 120
- USB port functions ↗ 122

### Navigation

(only Navi 600 / Navi 900)

Press the **NAVI** button and then the multifunction knob to open the Navigation menu.

Detailed description of the navigation system functions ↗ 130.

### Phone

(if Phone portal available)

Press the **PHONE** button to open the telephone menu.

Press the multifunction knob to open a submenu with options for the input or selection of numbers.

Detailed description of the mobile phone portal functions ↗ 188.

## Basic operation

### Multifunction knob

The multifunction knob is the central control element for the menus.

Turn the multifunction knob:

- to mark a menu option
- CD 300: to display a menu option
- to set a numeric value

Press the multifunction knob (Navi 600 / Navi 900: press the outer ring):

- to select or activate the marked option
- CD 300: to select or activate the option displayed
- to confirm a set value
- to switch a system function on/off

### BACK button

Press the **BACK** button briefly to:

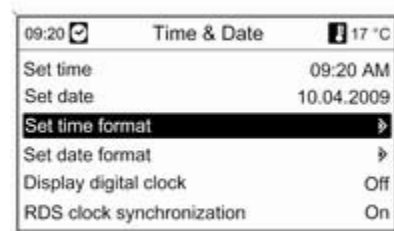
- exit a menu
- return from a submenu to the next higher menu level
- delete the last character in a character sequence

Press and hold the **BACK** button for a few seconds to delete the entire entry.

## Examples of menu operation

### Navi 600 / Navi 900

#### Selecting an option



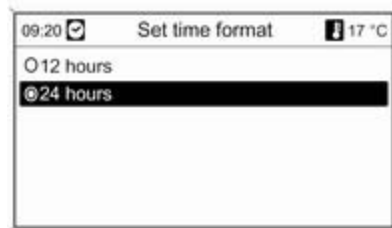
Turn the multifunction knob to move the cursor (= coloured background) to the desired option.

Press the multifunction knob to select the marked option.

### Submenus

An arrow on the right-hand edge of the menu indicates that after selection of the option a submenu with further options will be opened.

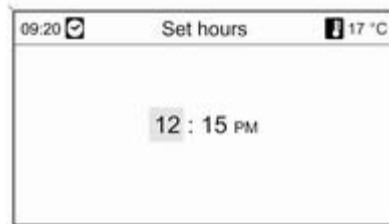
### Activating a setting



Turn the multifunction knob to mark the desired setting.

Press the multifunction knob to activate the setting.

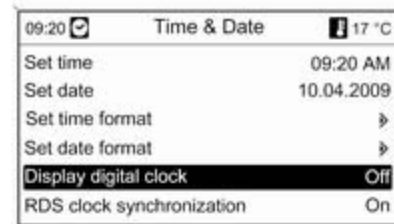
### Setting a value



Turn the multifunction knob to change the current value of the setting.

Press the multifunction knob to confirm the set value.

### Switching a function on or off

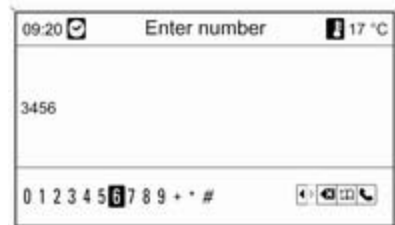


Turn the multifunction knob to mark the function to be switched on or off.

Press the multifunction knob to switch between the settings **On** and **Off**.



### Entering a character sequence

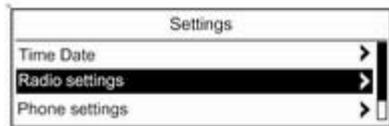


To enter character sequences, e.g. telephone numbers or road names:  
Turn the multifunction knob to select the desired character.

The last character in the character sequence can be deleted using the **BACK** button. Pressing and holding the **BACK** button deletes the entire entry.

Press the multifunction knob to confirm the selected character.

### CD 400 / CD 400plus Selecting an option



Turn the multifunction knob to move the cursor (= coloured background) to the desired option.

Press the multifunction knob to select the marked option.

#### Submenus

An arrow on the right-hand edge of the menu indicates that after selection of the option a submenu with further options will be opened.

### Activating a setting



Turn the multifunction knob to mark the desired setting.

Press the multifunction knob to activate the setting.

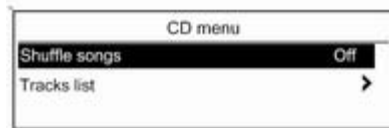
### Setting a value



Turn the multifunction knob to change the current value of the setting.

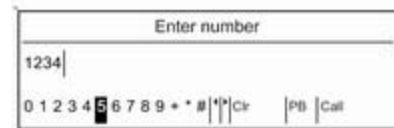
Press the multifunction knob to confirm the set value.

### Switching a function on or off



Turn the multifunction knob to mark the function to be switched on or off. Press the multifunction knob to switch between the settings **On** and **Off**.

### Entering a character sequence



For the input of character sequences, e.g. telephone numbers:

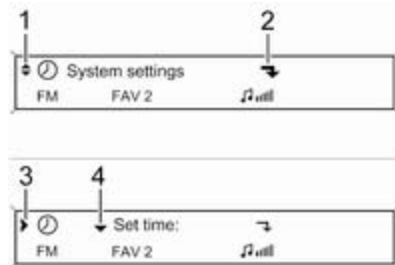
Turn the multifunction knob to select the desired character.

Press the multifunction knob to confirm the selected character.

Using the **BACK** button the last character in the character sequence can be deleted.

## CD 300

## Menu elements and symbols



The up and down arrows **1** indicate: the top menu level is active. Further options are available in the active menu.

Turn the multifunction knob to display the other options in the active menu.

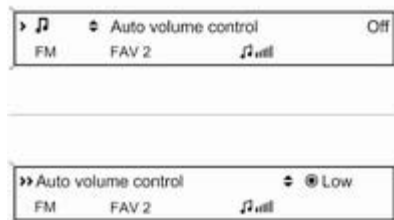
The angled arrow **2** indicates: a submenu with further options is available.

Press the multifunction knob to select the option displayed and to open the corresponding submenu.

The arrow pointing to the right **3** indicates: the first submenu level is active (two arrows = second submenu level active).

The down arrow **4** indicates: further options are available in the active submenu.

## Activating a setting

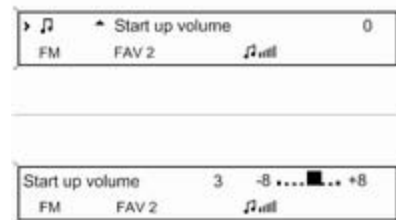


Press the multifunction knob to open the corresponding settings menu.

Turn the multifunction knob to display the desired setting.

Press the multifunction knob to activate the setting.

## Setting a value

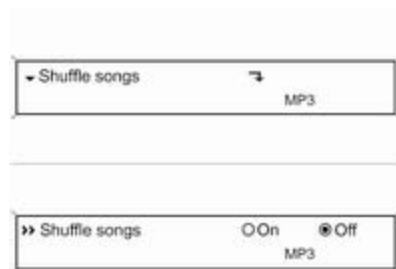


Press the multifunction knob to open the corresponding settings menu.

Turn the multifunction knob to change the current value of the setting.

Press the multifunction knob to confirm the set value.

## Switching a function on or off



Press the multifunction knob to open the corresponding settings menu.

Turn the multifunction knob to mark the setting **On** or **Off**.

Press the multifunction knob to confirm the marked setting.

## Entering a character sequence



Press the multifunction knob to open the relevant settings menu.

Turn the multifunction knob to change the character at the current cursor position.

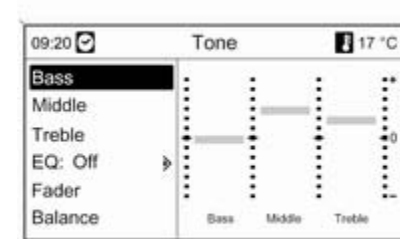
Press the multifunction knob to confirm the character displayed.

Using the **BACK** button the last character in the character sequence can be deleted.

## Tone settings

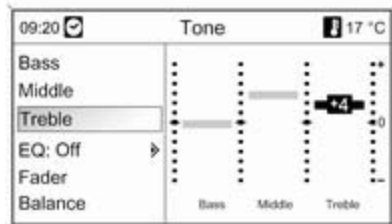
### Navi 600 / Navi 900

In the tone settings menu the tone characteristic can be set differently for each radio waveband and each audio player source.



Press the **TONE** button to open the tone menu.

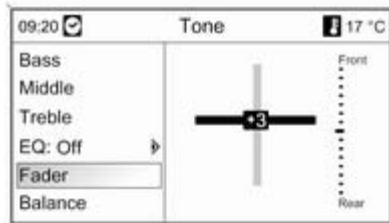
### Setting bass, middle and treble



Select **Bass**, **Middle** or **Treble**.

Set the desired value for the option selected.

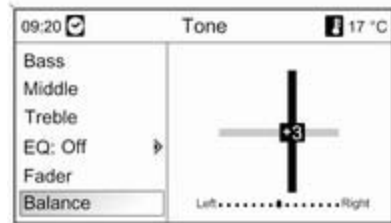
### Setting the volume distribution between front - rear



Select **Fader**.

Set the desired value.

### Setting the volume distribution between right - left



Select **Balance**.

Set the desired value.

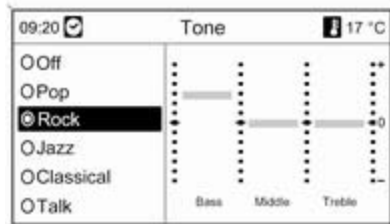
### Setting an individual setting to "0" or "Off"

Select the desired option and press and hold the multifunction knob for a few seconds.

### Setting all settings to "0" or "Off"

Press and hold the **TONE** button for a few seconds.

## Optimising the tone for the style of music



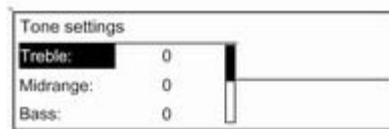
Select **EQ** (Equalizer).

The displayed options offer optimised bass, middle and treble presets for the relevant style of music.

Select the required option.

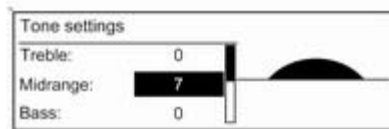
## CD 300 / CD 400 / CD 400plus

In the tone settings menu the tone characteristics can be set differently for each radio waveband and each audio player source.



Press the **TONE** button to open the tone menu.

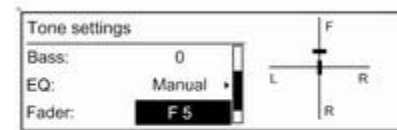
## Setting bass, middle and treble



Select **Bass:**, **Midrange:** or **Treble:**.

Set the desired value for the selected option.

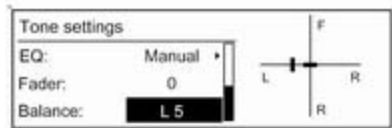
## Setting the volume distribution between front - rear



Select **Fader:**.

Set the desired value.

### Setting the volume distribution between right - left



Select **Balance**:

Set the desired value.

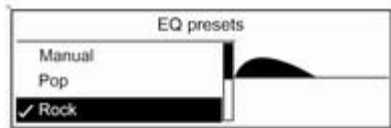
### Setting an individual setting to "0"

Select the desired option and press and hold the multifunction knob for a few seconds.

### Setting all settings to "0" or "Off"

Press and hold the **TONE** button for a few seconds.

### Optimizing the tone for the style of music



Select **EQ**: (Equalizer).

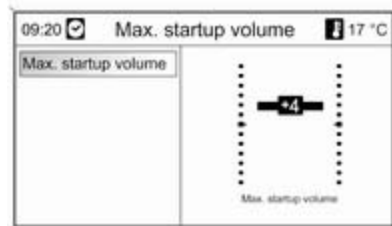
The displayed options offer optimized bass, middle and treble presets for the relevant style of music.

Select the desired option.

## Volume settings

### Navi 600 / Navi 900

#### Maximum startup volume

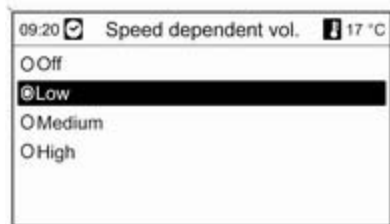


Press the **CONFIG** button to open the system settings menu.

Select **Radio settings** and then **Maximum startup volume**.

Set the desired value.

## Speed dependent volume



Press the **CONFIG** button to open the system settings menu.

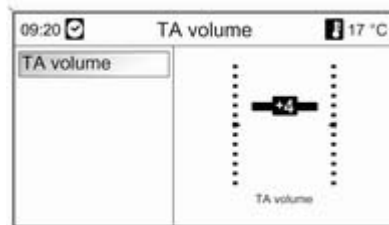
Select **Radio settings** and then **Speed dependent volume**.

Speed dependent volume can be deactivated or the degree of volume adaptation can be selected in the menu displayed.

Select the required option.

## Volume of the traffic announcements (TA)

The volume of the traffic announcements can be increased or reduced proportionately to the normal audio volume.



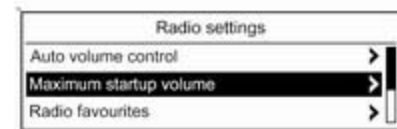
Press the **CONFIG** button to open the system settings menu.

Select **Radio settings**, **RDS options** and **TA volume**.

Set the desired value.

## CD 300 / CD 400 / CD 400plus

### Maximum startup volume



Press the **CONFIG** button to open the system settings menu.

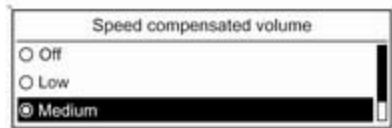
Select **Radio settings** and then **Maximum startup volume**.

CD 300: select **Audio settings** and then **Start up volume**.

Set the desired value.



## Speed compensated volume



Press the **CONFIG** button to open the system settings menu.

Select **Radio settings** and then **Auto volume control**.

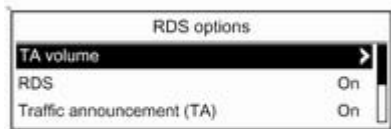
CD 300: select **Audio settings** and then **Auto volume control**.

Speed compensated volume can be deactivated or the degree of volume adaptation can be selected in the menu displayed.

Select the desired option.

## Volume of the traffic announcements (TA)

The volume of the traffic announcements can be increased or reduced proportionately to the normal audio volume.



Press the **CONFIG** button to open the system settings menu.

Select **Radio settings**, **RDS options** and **TA volume**.

CD 300: select **Audio settings**, **RDS options** and **TA volume**.

Set the desired value for the volume increase or reduction.

## Personalisation

(only CD 400plus)

Various Infotainment system settings can be separately memorised for each vehicle key (driver) of the car.

## Memorised settings

By removing the vehicle key from the ignition switch the following settings are automatically saved for the key being used:

- last volume settings; one volume level for all non-phone audio sources (radio, CD player, AUX, USB) and one for phone audio (if phone portal available)
- all radio station presets
- all tone settings; each of these settings are separately saved for each of the following audio sources (if available): AM, FM, DAB, CD player, AUX, USB
- last active audio source
- last active radio station (separately for each waveband)
- last active display mode

- last position in Audio/MP3 CD including track number and folder
- state of shuffle songs setting (CD player)
- state of TP (Traffic Programme) setting
- cursor position for each menu on the display

### **Activating/deactivating personalization**

Press the **CONFIG** button to open the system settings menu.

Select **Vehicle settings** and then **Comfort settings**.

Set **Personalization by driver** to **On** or **Off**.

## Radio

Usage .....	98
Station search .....	98
Autostore lists .....	99
Favourite lists .....	100
Waveband menus .....	102
Radio data system (RDS) .....	107
Digital audio broadcasting .....	111

## Usage

### Control buttons

The most important buttons for control of the radio are as follows:

- **RADIO**: Activate radio
- **◀ ▶**: Station search
- **AS**: Autostore lists
- **FAV**: Favourite lists
- **1...6**: Preset buttons
- **TP**: Radio traffic service ⇨ 107

### Activating the radio

Press the **RADIO** button to open the radio main menu.

The station last played will be received.

### Selecting the waveband

Press the **RADIO** button once or several times to select the desired waveband.

The station last played in that waveband will be received.

## Station search

### Automatic station search

Briefly press the button **◀ ▶** or **▶ ▶** to play the next station in the station memory.

### Manual station search

#### Navi 600 / Navi 900

Press **◀ ▶** or **▶ ▶** button and keep pressed. Release button when the required frequency has almost been reached on the frequency display.

A search is made for the next station that can be received and it is played automatically.

#### CD 300 / CD 400

Press the button **◀ ▶** or **▶ ▶** for a few seconds to start a search for the next receivable station in the current waveband.

When the required frequency has been reached the station is played automatically.

**Note**

Manual station search: If the radio does not find a station, it switches automatically to a more sensitive search level. If it still does not find a station, the frequency that was last active is set again.

**Note**

FM waveband: when the RDS function is activated, only RDS stations ↻ 107 are searched for, and when the radio traffic service (TP) is activated, only traffic service stations ↻ 107 are searched for.

**Manual station tuning****FM waveband**

Only Navi 600 / Navi 900: press the multifunction knob to open the FM menu and select **Manual tuning FM**.

Turn the multifunction knob and set the optimal reception frequency on the popup frequency display.

**AM waveband**

Turn the multifunction knob and set the optimal reception frequency on the popup frequency display.

**DAB waveband**

(not available for CD 300)

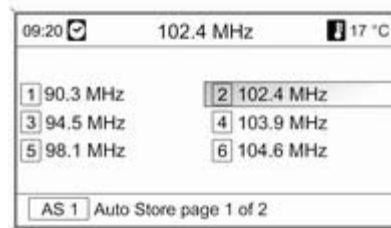
Press the multifunction knob to open the DAB menu and select **DAB manual tuning**.

Turn the multifunction knob and set the required reception frequency on the popup frequency display.

**Autostore lists**

The stations that can be received best in a waveband can be searched for and stored automatically via the autostore function.

**Navi 600 / Navi 900:**


**Note**

The currently received station is highlighted.

**CD 400 / CD 400plus:**

AS-Stations		FM AS1	
1 FM 89.0	2 FM 92.1		
3 FM 93.8	4 FM 95.6		
5 FM 95.9	6 FM 97.2		

**Note**

The currently received station is marked by .

Each waveband has 2 autostore lists (**AS 1, AS 2**), in each of which 6 stations can be stored.

## Automatic station storing

Keep the **AS** button pressed until an autostore message is displayed. The 12 strongest stations in the current waveband will be stored in the 2 autostore lists.

To abort the autostore procedure, press the multifunction knob.

## Storing stations manually

Stations can also be stored manually in the autostore lists.

Set the station to be stored.

Briefly press the **AS** button to open an autostore list or to switch to another autostore list.

To store the station in a list position: press the corresponding station button 1...6 until a confirmation message is displayed.

### Note

Manually stored stations are overwritten in an automatic station storing process.

## Retrieving a station

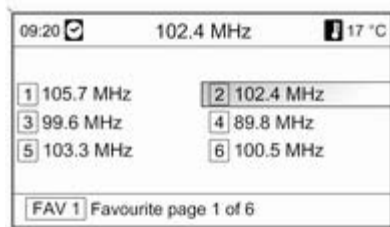
Briefly press the **AS** button to open an autostore list or to switch to another autostore list.

Briefly press one of the station buttons 1...6, to open the station at the corresponding list position.

## Favourite lists

Stations of all wavebands can be stored manually in the favourite lists.

## Navi 600 / Navi 900



6 stations can be stored in each favourite list. The number of available favourite lists can be set (see below).

### Note

The currently received station is highlighted.

## Storing a station

Set the station to be stored.

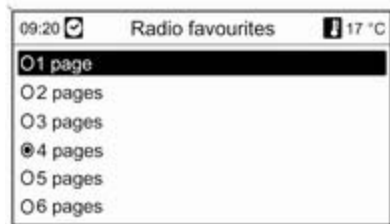
Briefly press the **FAV** button to open a favourite list or to switch to another favourite list.

To store the station in a list position: press the corresponding station button 1...6 until a confirmation message is displayed.

## Retrieving a station

Briefly press the **FAV** button to open a favourite list or to switch to another favourite list. Briefly press one of the station buttons 1...6, to open the station at the related list position.

## Defining the number of available favourite lists



Press **CONFIG** button.

Select **Radio settings** and then **Radio favourites**.

Select the desired number of available favourite lists.

## CD 300 / CD 400 / CD 400plus



6 stations can be stored in each favourite list. The number of available favourite lists can be set (see below).

CD 300: The number of available favourite lists is not configurable.

### Note

The currently received station is marked by 📻.

### Storing a station

Set the station to be stored.

Briefly press the **FAV** button to open a favourite list or to switch to another favourite list.

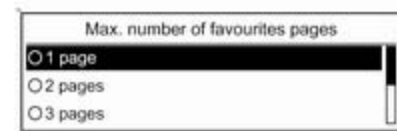
To store the station in a list position: press the corresponding station button 1...6 until a confirmation message is displayed.

### Retrieving a station

Briefly press the **FAV** button to open a favourite list or to switch to another favourite list.

Briefly press one of the station buttons 1...6, to open the station at the related list position.

**Defining the number of available favourite lists**  
(not CD 300)



Press the **CONFIG** button.

Select **Radio settings** and then **Radio favourites**.

Select the desired number of available favourite lists.

## Waveband menus

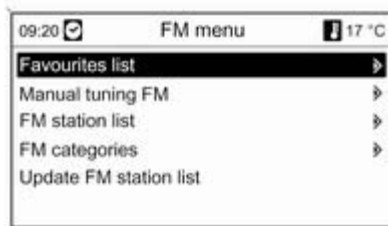
Alternative facilities for station selection are available via waveband specific menus.

With the radio main menu active press the multifunction knob to open the relevant waveband menu.

### Note

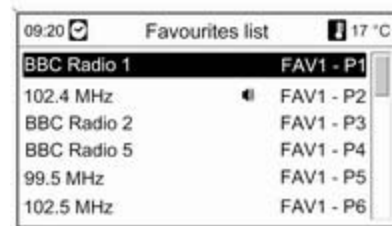
The following FM specific displays are shown as examples.

## Navi 600 / Navi 900



### Favourites list

Select **Favourites list**. All stations saved in the favourites lists are displayed.



Select the required station.

### Note

The currently received station is marked by 📻.

### Manual tuning

Description see "Manual station tuning" above.

### Station lists

#### AM/FM waveband

Select **AM station list** or **FM station list**.

All receivable AM/FM stations in the current reception area are displayed.

#### DAB waveband

Turn the multifunction knob.

All receivable DAB stations ⇨ 111 in the current reception area are displayed.

#### Note

If no station list has been created beforehand, the Infotainment system performs an automatic station search.



Select the required station.

#### Note

The currently received station is marked by 📡.

### Updating station lists

If the stations stored in a waveband-specific station list can no longer be received:

Select the corresponding command to update a station list.

A station search is started. Once the search is finished, the station previously selected is played.

To cancel the station search: press multifunction knob.

#### Note

If a waveband specific station list is updated the corresponding category list (if available) is also updated.

### Important information on updating the station lists

The dual tuner in the Infotainment system continuously updates the station lists in the background. This ensures that, e.g., the station lists always contain the stations that can be received in the local area during a long motorway journey. As the automatic updating takes a certain amount of time, not all stations that can be received may be available at

once in the station list at a sudden change in reception area. In such circumstances the updating of the station lists can be accelerated using the corresponding command for updating a station list.

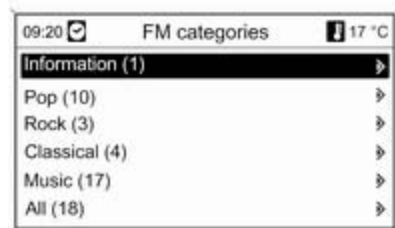
### Category lists

Numerous RDS stations ⇨ 107 broadcast a PTY code, which specifies the type of programme transmitted (e.g. news). Some stations also change the PTY code depending on the content currently being transmitted.

The Infotainment system stores these stations, sorted by programme type, in the corresponding category list.

To search for a programme type determined by station: select the waveband specific category list option.

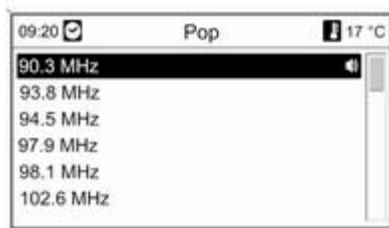




A list of programme types available at the moment is displayed.

Select desired programme type.


A list of stations is displayed that transmit a programme of the selected type.




Select the required station.

The category list is also updated when the corresponding waveband specific station list is updated.

#### Note

The currently received station is marked by .

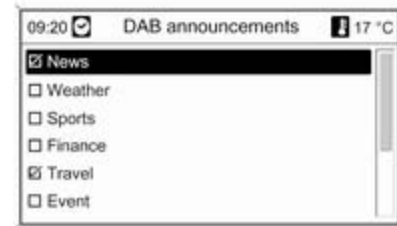
#### DAB announcements

Besides their music programmes numerous DAB stations  111 broadcast various announcement categories.

The currently received DAB service (programme) is interrupted when any announcements of previously activated categories are pending.

#### Activating announcement categories

Select **DAB announcements** in the DAB menu.



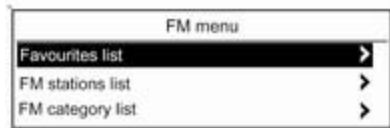
Activate the desired announcement categories.

Several announcement categories can be selected at the same time.

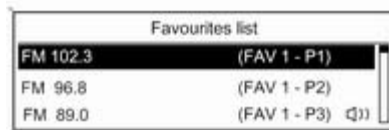
#### Note

DAB announcements can only be received if the DAB waveband is activated.

## CD 300 / CD 400 / CD 400plus


**Favourites list**

Select **Favourites list**. All stations saved in the favourites lists are displayed.



Select the required station.

**Note**

The currently received station is marked by .

**Stationslists****AM/FM waveband**


Select **AM stations list** or **FM stations list**.

All receivable AM/FM stations in the current reception area are displayed.

**DAB waveband**

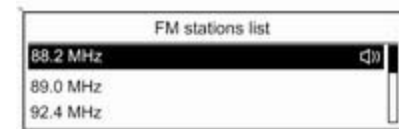
(if available)

Turn the multifunction knob.

All receivable DAB stations  111 in the current reception area are displayed.


**Note**

If no station list has been created beforehand, the Infotainment system performs an automatic station search.



Select the required station.

**Note**

The currently received station is marked by .

**Updating stations lists**

If the stations stored in a waveband-specific station list can no longer be received:

Select the corresponding command to update a station list.

CD 400plus: The dual tuner of the Infotainment system continuously updates the FM stations list in the background. No manual update is required.

A station search is started. Once the search is completed the station last received will be played.

To abort the station search, press the multifunction knob.

### Note

If a waveband specific station list is updated the corresponding category list (if available) is also updated.

### Category lists

Numerous RDS stations ⇨ 107 broadcast a PTY code, which specifies the type of programme transmitted (e.g. news). Some stations also change the PTY code depending on the content currently being transmitted.

The Infotainment system stores these stations, sorted by programme type, in the corresponding category list.

To search for a programme type determined by station: select the waveband specific category list option.



A list of programme types available at the moment is displayed.

Select the desired programme type.

A list of stations is displayed that transmit a programme of the selected type.



Select the desired station.

CD 300: The next receivable station of the selected type is searched for and is played.

The category list is also updated when the corresponding waveband specific station list is updated.

### Note

The currently received station is marked by 📻.

### DAB announcements

Besides their music programmes numerous DAB stations ⇨ 111 broadcast various announcement categories.

The currently received DAB service (programme) is interrupted when any announcements of previously activated categories are pending.

### Activating announcement categories

Select **DAB announcements** in the DAB menu.



Activate the desired announcement categories.

Several announcement categories can be selected at the same time.

### Note

DAB announcements can only be received if the DAB waveband is activated.

## Radio data system (RDS)

RDS is a service of FM stations that considerably facilitates the finding of the desired station and its fault-free reception.

### Advantages of RDS

- On the display the programme name of the set station appears instead of its frequency.
- On station search the Infotainment system tunes in to RDS stations only.
- The Infotainment system always tunes into the best receivable broadcasting frequency of the set station by means of AF (Alternative Frequency).
- Depending on the station that is received the Infotainment system displays radio text that can contain, for example, information about the current programme.

## Navi 600 / Navi 900

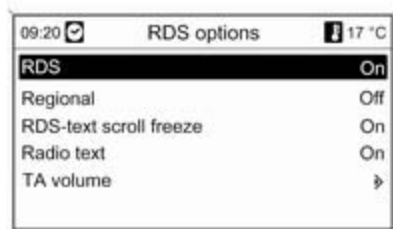


### Configuring RDS

To open the menu for the RDS configuration:

Press the **CONFIG** button.

Select **Radio settings** and then **RDS options**.



### Switching RDS on and off

Set **RDS** to **On** or **Off**.

#### Note

If RDS is switched off, it will be automatically switched on again when a radio station is changed (by search function or preset button).

### Switching regionalization on and off

(RDS must be activated for regionalization.)

At certain times some RDS stations broadcast regionally different programmes on different frequencies.

Set **Regional** to **On** or **Off**.

If regionalization is switched on, only alternative frequencies (AF) with the same regional programmes are selected.

If regionalization is switched off, alternative frequencies of the stations are selected without regard to regional programmes.

### RDS scrolling text

Some RDS stations use the lines for indicating the name of the programme to also indicate additional information. During this process the programme name is hidden.

To prevent additional information being displayed:

Set **RDS-text scroll freeze** to **On**.

### Radio text

If RDS and reception of an RDS station are activated, information about the programme that is currently receivable and about the music track being played at the moment are displayed below the programme name.

To show or hide the information:

Set **Radio text** to **On** or **Off**.

### TA volume

The volume of the traffic announcements (TA) can be preset  
 ⇨ 94.

### Radio traffic service

(TP = Traffic Programme)

Radio traffic service stations are RDS stations that broadcast traffic news.

### Switching the radio traffic service on and off

To switch the traffic announcement standby facility of the Infotainment system on and off:

Press the **TP** button.

- If the radio traffic service is switched on, [ ] is indicated on the display in black (grey if radio traffic service is switched off).
- Only radio traffic service stations are received.
- If the current station is not a radio traffic service station, a search is started automatically for the next radio traffic service station.

- If a radio traffic service station has been found, **[TP]** is indicated on the display in black. If no radio traffic service stations are found, TP is displayed in grey.
- Traffic announcements are played at the preset TA volume ⇨ 94.
- If the radio traffic service is switched on, CD/MP3 replay is interrupted for the duration of the traffic announcement.

### Listening to traffic announcements only

Switch on the radio traffic service and completely turn down the volume of the Infotainment system.

### Blocking out traffic announcements

To block out a traffic announcement, e.g. during CD/MP3 replay:

Press **TP** button or the multifunction knob to confirm the cancel message on the display.

The traffic announcement is aborted, but the radio traffic service remains switched on.

### EON (Enhanced Other Networks)

With EON you can listen to radio traffic announcements even if the station you have set does not broadcast its own radio traffic service. If such a station is set, it is displayed in black as for radio traffic service stations **TP**.

### CD 300 / CD 400 / CD 400plus



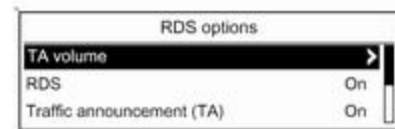
### Configuring RDS

To open the menu for the RDS configuration:

Press the **CONFIG** button.

Select **Radio settings** and then **RDS options**.

CD 300: Select **Audio settings** and then **RDS options**.



### TA volume

The volume of the traffic announcements (TA) can be preset ⇨ 94.

### Switching RDS on and off

Set the option **RDS** to **On** or **Off**.

**Note**

If RDS is switched off, it will be automatically switched on again when a radio station is changed (by search function or preset button).

**Traffic announcement (TA)**

To switch the TA function on or off permanently:

Set the option **Traffic announcement (TA)** to **On** or **Off**.

**Switching regionalization on and off**  
(RDS must be activated for regionalization.)

At certain times some RDS stations broadcast regionally different programmes on different frequencies.

Set the option **Regional (REG)** to **On** or **Off**.

If regionalization is switched on, only alternative frequencies (AF) with the same regional programmes are selected.

If regionalization is switched off, alternative frequencies of the stations are selected without regard to regional programmes.

**RDS-scrolling text**

Some RDS stations hide the programme name in the display line in order to display additional information.

To prevent additional information being displayed:

Set **RDS-Text scroll freeze** to **On**.

**Radio text:**

If RDS and reception of an RDS station are activated, information about the programme that is currently receivable and about the music track being played at the moment are displayed below the programme name.

To show or hide the information:

Set the option **Radio text:** to **On** or **Off**.

**Radio traffic service**

(TP = Traffic Programme)

Radio traffic service stations are RDS stations that broadcast traffic news.

**Switching the radio traffic service on and off**

To switch the traffic announcement standby facility of the Infotainment system on and off:

Press the **TP** button.

- If the radio traffic service is switched on, **[ ]** is displayed in the radio main menu.
- Only radio traffic service stations are received.
- If the current station is not a radio traffic service station, a search is started automatically for the next radio traffic service station.
- If a radio traffic service station has been found, **[TP]** is displayed in the radio main menu.
- Traffic announcements are played at the preset TA volume ↻ 94.
- If the radio traffic service is switched on, CD/MP3 replay is interrupted for the duration of the traffic announcement.

### Listening to traffic announcements only

Switch on the radio traffic service and completely turn down the volume of the Infotainment system.

### Blocking out traffic announcements

To block out a traffic announcement, e.g. during CD/MP3 replay:

Press **TP** button or the multifunction knob to confirm the cancel message on the display.

The traffic announcement is aborted, but the radio traffic service remains switched on.

### EON (Enhanced Other Networks)

With EON you can listen to radio traffic announcements even if the station you have set does not broadcast its own radio traffic service. If such a station is set, it is displayed in black as for radio traffic service stations **TP**.

## Digital audio broadcasting

(if available)

Digital audio broadcasting (DAB) is an innovative and universal broadcast system.

DAB stations are indicated by the programme name instead of the broadcasting frequency.

**Navi 600 / Navi 900:**



**CD 400plus:**



### General information

- With DAB, several radio programmes (services) can be broadcast on a single frequency (ensemble).
- Besides high-quality digital audio services, DAB is also able to transmit programme-associated data and a multitude of other data services including travel and traffic information.



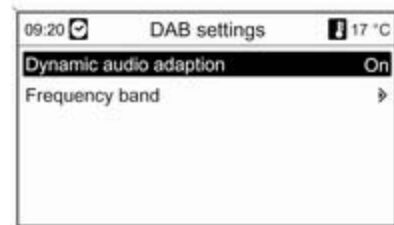
- As long as a given DAB receiver can pick up the signal sent out by a broadcasting station (even if the signal is very weak), sound reproduction is ensured.
- There is no fading (weakening of the sound) that is typical of AM or FM reception. The DAB signal is reproduced at a constant volume.
- Only CD 400plus: if the DAB signal is too weak to be picked up by the receiver, reception is interrupted completely. This incident can be avoided by activating **Auto ensemble linking** and/or **Auto linking DAB-FM** in the DAB settings menu.
- Interference caused by stations that are on nearby frequencies (a phenomenon that is typical of AM and FM reception) does not occur in connection with DAB.
- If the DAB signal is reflected by natural obstacles or buildings, the reception quality of DAB is

improved, whereas AM or FM reception is considerably impaired in such cases.

- When DAB reception is enabled, the FM tuner of the Infotainment system remains active in the background and continually searches for the best receivable FM stations. If TP ⇨ 107 is activated, traffic announcements of the FM station which is currently best receivable are issued. Deactivate TP, if DAB reception should not be interrupted by FM traffic announcements.

## Configuring DAB

### Navi 600 / Navi 900



Press the **CONFIG** button.

Select **Radio settings** and then **DAB settings**.

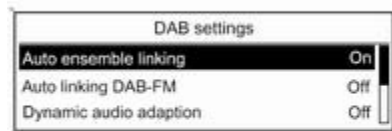
The following options are available in the configuration menu:

- **Dynamic audio adaption:** with this function activated, the dynamic range of the DAB signal is reduced. That means the level of the loud sounds is reduced, but not the level of the quiet sounds. Therefore the volume of the Infotainment system

can be raised to a point where the quiet sounds are audible, without the loud sounds being too loud.

- **Frequency band:** after selection of this option the user can define which DAB wavebands are to be received by the Infotainment system.

#### CD 400plus



Press the **CONFIG** button.

Select **Radio settings** and then **DAB settings**.

The following options are available in the configuration menu:

- **Auto ensemble linking:** with this function activated, the device switches over to the same service (programme) on another DAB ensemble (frequency, if available) when the DAB signal is too weak to be picked up by the receiver.
- **Auto linking DAB-FM:** with this function activated, the device switches over to a corresponding FM station of the active DAB service (if available) when the DAB signal is too weak to be picked up by the receiver.
- **Dynamic audio adaption:** with this function activated, the dynamic range of the DAB signal is reduced. That means the level of the loud sounds is reduced, but not the level of the quiet sounds. Therefore the volume of the Infotainment system

can be raised to a point where the quiet sounds are audible, without the loud sounds being too loud.

- **Frequency band:** after selection of this option it can be defined which DAB wavebands are to be received by the Infotainment system.

## CD Player

General information .....	114
Usage .....	116

### General information

#### Navi 600 / Navi 900

The Infotainment system's CD player can replay audio CDs and MP3/WMA CDs.

#### Important information about audio CDs and MP3/WMA CDs

##### Caution

Under no circumstances place DVDs, single-CDs with a diameter of 8 cm or shaped CDs in the audio player.

You must not put any stickers on CDs. These discs can get jammed in the CD drive and ruin the drive. An expensive replacement of the device will then be necessary.

- Audio CDs with copy protection, which are not in compliance with the audio CD standard, may not play correctly or not at all.

- Self-recorded CD-Rs and CD-RWs are more vulnerable to mishandling than prerecorded CDs. Correct handling, especially in the case of self-recorded CD-Rs and CD-RWs, must be ensured; see below.
- Self-recorded CD-Rs and CD-RWs may not play correctly or not at all.
- On mixed mode CDs (combinations of audio and data, e.g. MP3), only the audio tracks will be detected and played.
- Avoid leaving fingerprints when you change CDs.
- Put CDs back in their sleeves immediately after removing them from the audio player in order to protect them from damage and dirt.
- Dirt and liquids on CDs can smear the lens of the audio player inside the device and cause faults.
- Protect CDs from heat and direct sunlight.
- The following restrictions apply for the data stored on an MP3/WMA CD:

Maximum folder structure depth: 11 levels.

Maximum number of MP3/WMA files that can be saved: 1000.

WMA files with Digital Rights Management (DRM) from online music shops cannot be played.

WMA files can only be played back safely if they were created with Windows Media Player version 8 or later.

Applicable playlist extensions: .m3u, .pls

Playlist entries must be in the form of relative paths.

- This chapter deals only with playing MP3 files since the operation for MP3 and WMA files is identical. When a CD with WMA files is loaded MP3 related menus are displayed.

### CD 300 / CD 400 / CD 400plus

The Infotainment system's CD player can play audio CDs and MP3/WMA CDs.

### Important information about audio CDs and MP3/WMA CDs

#### Caution

Under no circumstances place DVDs, single-CDs with a diameter of 8 cm or shaped CDs in the audio player.

You must not put any stickers on CDs. These discs can get jammed in the CD drive and ruin the drive. An expensive replacement of the device will then be necessary.

- The following CD formats can be used:
  - CD-ROM Mode 1 and Mode 2.
  - CD-ROM XA Mode 2, Form 1 and Form 2.
- The following file formats can be used:
  - ISO9660 Level 1, Level 2, (Romeo, Joliet).
  - MP3 and WMA files written in any format other than listed above may not play correctly, and their file

names and folder names may not be displayed correctly.

#### Note

ISO 13346 is not supported. It may be required to manually select ISO 9660 when burning an audio CD as example with Windows 7.

- Audio CDs with copy protection, which are not in compliance with the audio CD standard, may not play correctly or not at all.
- Self-recorded CD-Rs and CD-RWs are more vulnerable to mishandling than prerecorded CDs. Correct handling, especially in the case of self-recorded CD-Rs and CD-RWs, must be ensured. See below.
- Self-recorded CD-Rs and CD-RWs may not play correctly or not at all. In such cases it is not the equipment that is at fault.
- On mixed mode CDs (audio tracks and compressed files, e.g. MP3, are stored), the audio tracks part and the compressed files part can be played separately.

- Avoid leaving fingerprints when you change CDs.
- Put CDs back in their sleeves immediately after removing them from the CD player in order to protect them from damage and dirt.
- Dirt and liquids on CDs can smear the lens of the CD player inside the device and cause faults.
- Protect CDs from heat and direct sunlight.
- The following restrictions apply for the data stored on an MP3/WMA CD:
  - Number of tracks: max. 999.
  - Number of folders: max. 255.
  - Folder structure depth: max. 64 levels (recommended: max. 8 levels).
  - Number of playlists: max. 15.
  - Number of songs per playlist: max. 255.

Applicable playlist extensions: .m3u, .pls, .asx, .wpl.

- This chapter deals only with playing MP3 files since the operation for MP3 and WMA files is identical. When a CD with WMA files is loaded MP3 related menus are displayed.

## Usage

### Navi 600 / Navi 900



### Starting CD replay

Push CD with the labelled side upward into the CD slot until it is pulled in.

CD replay starts automatically and the **Audio CD** or **Audio MP3** menu is displayed.

If there is already a CD in the unit, but the **Audio CD** or **Audio MP3** menu is not active:

Press **CD/AUX** button.

The **Audio CD** or **Audio MP3** menu is opened and CD replay is started.

Depending on the data stored on the audio CD or MP3 CD differing information about the CD and the current music track will be shown on the display.

### Selecting a track

Turn the multifunction knob to display a list of all tracks on the CD. The currently played track is preselected. Select the desired track.

### Skipping to the next track or previous track

Briefly press ◀◀ ⏮ or ⏭ ▶▶ button once or several times.

### Track search forward or backward

Briefly press ◀◀ ⏮ or ⏭ ▶▶ button and then press ◀◀ ⏮ or ⏭ ▶▶ button again and keep pressed until the desired track is displayed.

### Fast forward or rewind

Press the button ◀◀ ⏮ or ⏭ ▶▶ and hold it down to fast forward or rewind the current track.

### Selecting tracks using the audio CD or MP3 menu

#### During audio CD replay

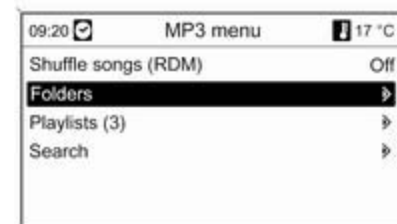


Press the multifunction knob to open the audio CD related menu.

To play all tracks in random order: set **Shuffle songs (RDM)** to **On**.

To select a track on the audio CD: select **Track list** and then select the desired track.

#### During MP3 replay



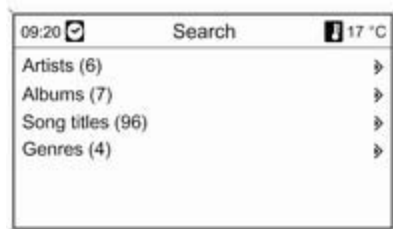
Press the multifunction knob to open the MP3 related menu.

To play all tracks in random order: set **Shuffle songs (RDM)** to **On**.

To select a track from a folder or playlist (if available): select **Folders** or **Playlists**.

Select a folder or playlist and then select the desired track.

Select **Search** to open a menu with additional options for track search and selection.



Depending on the amount of tracks saved, the search process may take several minutes.

Select a search option and then select the desired track.

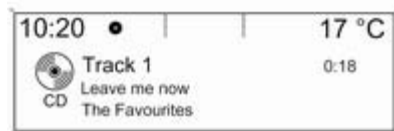
### Removing a CD

Press  $\triangle$  button.

The CD is pushed out of the CD slot.

If the CD is not removed after ejection, it will be drawn back in again automatically after a few seconds.

## CD 300 / CD 400 / CD 400plus



### Starting CD replay

Press the **CD** button to open the CD or MP3 menu.

If there is a CD in the CD player, CD replay is started.

Depending on the data stored on the audio CD or MP3 CD differing information about the CD and the current music track will be shown on the display.

### Inserting a CD

Insert a CD with the printed side facing up into the CD slot until it is drawn in.

### Changing the standard page view

(only CD 300)

During audio CD or MP3 replay: press the multifunction knob and then select **Default CD page view** or **Default MP3 page view**.

Select the desired option.

### Changing the folder level

(only CD 300, MP3 replay)

Press the button  $\square$  or  $\square$  to change to a higher or lower folder level.

### Skipping to the next track or previous track

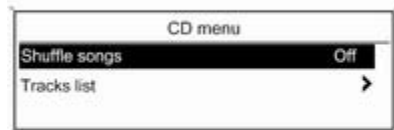
Briefly press the button  $\ll \blacksquare$  or  $\blacksquare \gg$ .

### Fast forward or rewind

Press the button  $\ll \blacksquare$  or  $\blacksquare \gg$  and hold it down to fast forward or rewind the current track.

## Selecting tracks using the audio CD or MP3 menu

### During audio CD replay

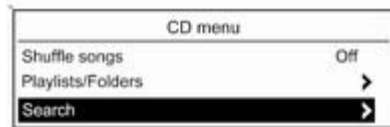


Press the multifunction knob to open the audio CD related menu.

To play all tracks in random order: set **Shuffle songs** to **On**.

To select a track on the audio CD: select **Tracks list** and then select the desired track.

### During MP3 replay



Press the multifunction knob to open the MP3 related menu.

To play all tracks in random order: set **Shuffle songs** to **On**.

To select a track from a folder or playlist (if available): select **Playlists/Folders**.

Select a folder or playlist and then select the desired track.

#### Note

If a CD contains both audio and MP3 data, the audio data can be selected from **Playlists/Folders**.

To open a menu with additional options for track search and selection (only CD 400plus): select **Search**. What options are available depends on the data saved on the MP3 CD.

The search process on the MP3 CD may take several minutes. During this time the station last played will be received.

### Removing a CD

Press the  $\triangle$  button.

The CD is pushed out of the CD slot.

If the CD is not removed after ejection, it will be drawn back in again automatically after a few seconds.



## AUX input

General information .....	120
Usage .....	120

### General information

Navi 600 / Navi 900:



CD 300 / CD 400 / CD 400plus:



In the centre console there is an AUX socket for the connection of external audio sources.

It is possible, for example, to connect a portable CD player with a 3.5 mm jack plug to the AUX input.

#### Note

The socket must always be kept clean and dry.

### Usage

Press the **CD/AUX** or **AUX** button once or several times to activate the AUX mode.

Navi 600 / Navi 900:



CD 300 / CD 400 / CD 400plus:



An audio source that is connected to the AUX input can be operated only via the control elements of the audio source.

## USB port

General information .....	122
Playing saved audio files .....	123

### General information

#### Navi 600 / Navi 900



In the centre console there is a USB socket for the connection of external audio data sources.

**Note**

The socket must always be kept clean and dry.

An MP3 player, USB drive or an iPod can be connected to the USB port.

**Note**

Not all MP3 player, USB drive and iPod models are supported by the Infotainment system.

**Important information****MP3 player and USB drives**

- The MP3 players and USB drives connected must comply with the USB Mass Storage Class specification (USB MSC).
- Only MP3 players and USB drives with a cluster size smaller or equal to 64 kB in the FAT16/FAT32 file system are supported.
- Hard disk drives (HDD) and are not supported.
- USB hubs are not supported.
- The following restrictions apply for the data stored on an MP3 Player or USB device:

Maximum folder structure depth: 11 levels.

Maximum number of MP3/WMA files that can be saved: 1000.

WMA files with Digital Rights Management (DRM) from online music shops cannot be played.

WMA files can only be played back safely if they were created with Windows Media Player version 8 or later.

Applicable playlist extensions: .m3u, .pls

Playlist entries must be in the form of relative paths.

The system attribute for folders/ files that contain audio data must not be set.

## CD 400plus



In the centre console there is a USB socket for the connection of external audio data sources.

Devices connected to the USB port are operated via the controls and menus of the Infotainment system.

### Note

The socket must always be kept clean and dry.

### Important information

The following devices can be connected to the USB port:

- iPod
- Zune
- PlaysForSure device (PFD)
- USB drive

### Note

Not all iPod, Zune, PFD or USB drive models are supported by the Infotainment system.

## Playing saved audio files

### Navi 600 / Navi 900

### MP3 player / USB drives



Press the **CD/AUX** button once or several times to activate the audio USB mode.

Replay of the audio data stored on the USB device is started.

The operation of data sources connected via USB is the same as for an audio MP3/WMA CD ↗ 116.

## iPod



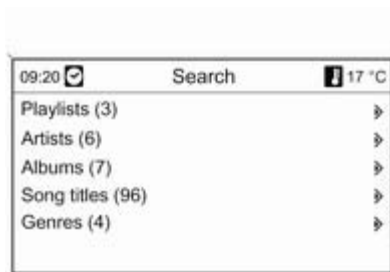
Press the **CD/AUX** button once or several times to activate the audio iPod mode.

Replay of the audio data stored on the iPod is started.

The operation of the iPod connected via USB is mainly the same as for an audio MP3/WMA CD ⇨ 116.

On the following pages only the aspects of operation that are different/additional are described.

## iPod functions



Depending on the data saved, there are various options for the selection and playing of tracks.

Press the multifunction knob and then select **Search** to display the options available.

The search process on the device may take several seconds.

## CD 400plus



Press the **AUX** button once or several times to activate the USB mode.

Replay of the audio data stored on the USB device is started.

The operation of data sources connected via USB is mainly the same as for an audio MP3 CD ⇨ 116.

On the following pages only the aspects of operation that are different/additional are described.

Operation and the screen displays are described for USB drives only. Operation of other devices like iPod or Zune is mainly the same.

## Selecting tracks using the USB menu



Press the multifunction knob to open the USB related menu.

To play all tracks in succession: select **Play all**.

To display a menu with various additional options for track search and selection: select **Search**.

The search process on the USB device may take several minutes. During this time the station last played will be received.

To play all tracks in random order: set **Shuffle songs (random)** to **On**.

To repeat the currently played track: set **Repeat** to **On**.

## Digital picture frame

General information .....	126
Usage .....	126

### General information

Using the digital picture frame function (only Navi 600 / Navi 900) you can view your favourite pictures (or photos), one at a time, on the display of the Infotainment system.

You can download your favourite pictures from a USB drive connected to the USB port ↗ 122 of the Infotainment system.

Up to 10 pictures can be stored in the Infotainment system's memory.

The pictures are shown on the display in their original ratio (borders if necessary are black) and orientation.

### Important information

- The pictures you want to download need to be stored in the root directory (e.g., "F:\") of the USB drive.
- Only the first 100 pictures (sequentially sorted as stored in the root directory of the USB drive) will be offered for download.

- Only pictures in JPEG standard format (file extensions, e.g., .jpg or .jpeg) are supported.

Example: "F:\myPicture.jpg", where "F:\\" is the root directory of the USB drive.

- The maximum supported resolution of a picture is 12 Mega pixel.

Pictures with higher resolutions are down-scaled (resized) during download.

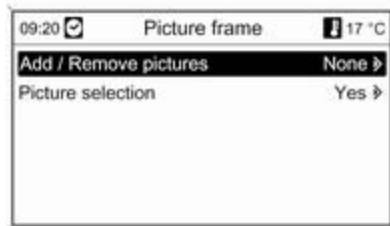
Pictures with lower resolutions are not up-scaled (not resized) during download and centred in the middle of the display.

### Usage

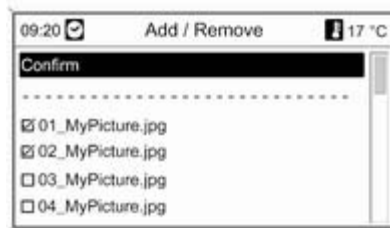
#### Downloading and/or removing pictures

Connect a USB drive with your favourite pictures (or photos) stored on it to the USB port ↗ 122 of the Infotainment system.

Press the **CONFIG** button, select **Display settings**, and then select **Picture frame**. The menu shown below is displayed.



Select **Add / Remove pictures** to open the menu shown below.



The menu shows a list with the file names of all pictures (note the restrictions described in "Important information" above) stored in the root directory of the connected USB drive.

If pictures were already stored in the Infotainment system's memory, that "old" pictures are listed first on the menu and indicated by **MEM**, see image below.

If you want to have removed "old" pictures, you need to deselect them before downloading new pictures.



Select max. 10 pictures that you want to be downloaded (added) to the Infotainment system's memory or stay stored in that memory.

Select **Confirm** to start the picture download and/or removal.

A message is displayed that shows how many pictures are going to be downloaded and/or removed.

Select **Continue** if you want to start the download and/or removal.

### Displaying pictures

Pictures stored in the Infotainment system's memory can be shown on the display one at a time.



Press the **CONFIG** button, select **Display settings**, select **Picture frame**, and then select **Picture selection**. The menu shown below is displayed.



Select the picture you want to be shown on the display.

Press the **INFO** button several times until the currently selected picture is shown on the display.

To display a default Infotainment menu again, press any button on the Infotainment system.

As long as a picture stays selected in the **Picture selection** menu, it can be displayed at any time using the **INFO** button.

# Navigation

General information .....	129
Usage .....	130
Destination input .....	140
Guidance .....	158
Dynamic guidance .....	167
Maps .....	168
Symbols overview .....	170

## General information

The navigation system will reliably guide you to your destination without the need to read maps, even if you have no local knowledge whatsoever.

The current traffic situation is taken into account in the route calculation if dynamic route guidance is used. For this purpose the Infotainment system receives traffic announcements in the current reception area via RDS-TMC.

The navigation system cannot, however, take into account traffic incidents, traffic regulations changed at short notice and hazards or problems that arise suddenly (e.g. road works).

### Caution

The usage of the navigation system does not release the driver from the responsibility for a correct, vigilant attitude in road traffic. The relevant traffic regulations must always be

followed. If a navigation instruction contradicts traffic regulations, the traffic regulations always apply.

## Functioning of the navigation system

The position and movement of the vehicle are detected by the navigation system using sensors. The travelled distance is determined by the vehicle's speedometer signal, turning movements on bends by a gyro sensor. The position is determined by the GPS satellites (Global Positioning System).

By comparing the sensor signals with the digital maps on the map SD card, it is possible to determine the position with an accuracy of approx. 10 m.

The system will also work with poor GPS reception, however, the accuracy of the determination of the position will be reduced.

After the entry of the destination address or point of interest (nearest petrol station, hotel, etc.) the route is calculated from the current location to the destination selected.

The route guidance is provided by voice output and an arrow, as well as with the aid of a multi-colour map display.

### **TMC traffic information system and dynamic route guidance**

The TMC traffic information system receives all current traffic information from TMC radio stations. If dynamic route guidance is active, this information is included in the calculation of the overall route. During this process, the route is planned so that traffic problems related to pre-selected criteria are avoided.

If there is a traffic problem during active route guidance, depending on the pre-settings, a message appears as to whether the route should be changed.

TMC traffic information is displayed in the route guidance display as symbols or as detailed text on the **TMC messages** menu.

To be able to use TMC traffic information, the system has to receive TMC stations in the relevant region.

Dynamic route guidance only works if traffic information is received via the TMC traffic information system.

The dynamic route guidance function can be deactivated in the **Navigation options** menu, see chapter "Guidance" ↗ 158.

### **Map data**

All required map data is stored on an SD card provided with the Infotainment system.

Detailed descriptions on map SD card handling and replacement, see chapter "Maps" ↗ 168

## **Usage**

### **Control elements**

The most important navigation-specific control elements are the following:

**NAVI** button: activate navigation; show current position (if route guidance inactive); show calculated route (if route guidance active); toggle between full map display, arrow

display (if route guidance active) and split screen display, see "Information on the display".

**DEST** button: open menu with options for destination entry.

**Eight-way switch:** move display window in navigation map view; to select the destination, press in the required direction to position the crosswires over a destination on the map.

**RPT** button: repeat last route guidance message.

### **Activating the navigation system**

Press the **NAVI** button.

The map of the current location is shown on the display.

### **Route guidance messages**

In addition to the visual instructions on the display (see "Information on the display" below), route guidance messages will be announced when route guidance is active.

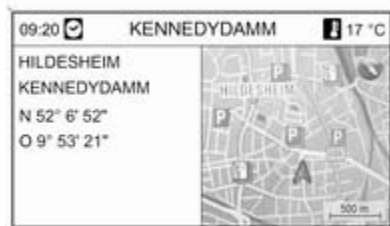
Presetting the volume of route guidance messages: see "Setting up the navigation system" below.

Adjusting the volume of route guidance messages while they are announced: turn the  $\odot$  knob.

Repeating the last announced route guidance message: press the **RPT NAV** button.

## Information on the display

### Route guidance not active



If route guidance is not active, the following information is displayed:

- In the top line: time, street name of current position, exterior temperature.
- Address and geographic coordinates of current position.
- Map display of the area around the current position.
- On the map: current position marked by a red triangle.

A compass symbol that indicates the north direction.

If no GPS signal is available at the current position, a crossed "GPS" symbol is displayed below the compass symbol.

The currently selected map scale (change scale: turn multifunction knob).

### Note

To change to full map display: press **NAV** button.

### Route guidance active

If route guidance is active, the following information is displayed (depending on the current **Navigation options** settings, see chapter "Guidance" ↗ 158):

### Information in the top line



- Time
- Distance to the final destination
- Arrival time or travel time
- Exterior temperature

### Information on the arrow display

- A big arrow representing the direction to follow.

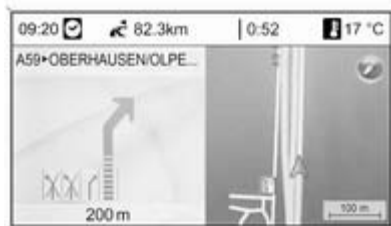
- A small arrow representing the overnext driving recommendation.
- Distance to the next intersection.
- Streets leading off the current street to follow.
- Below the arrow symbol: the name of the current street to follow.
- Above the arrow symbol: the name of the street to follow after the next intersection.
- While driving on highways:



Driving direction and distance to the next highway exit, which you need to follow.

Distances to the next service areas, parking areas, intersections and/or exits on the highway.

- When reaching a highway intersection information regarding lane guidance is displayed:



If the option **Highway lane guidance** is activated in the **Display route guidance** menu (see chapter "Guidance" ↗ 158) the following type of illustration is displayed:



Information on the map display



On the right side of the display the following information is shown:

- A compass symbol that indicates the north direction.
- If no GPS signal (see chapter "General information" ⇨ 129) is available at the current position: a crossed "GPS" symbol is displayed below the compass symbol.
- The currently selected map scale (change scale: turn multifunction knob).

On the map the following information is shown:

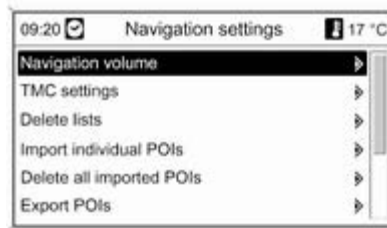
- The route as a blue line.
- The current position as a red triangle.
- The final destination as a chequered flag.
- Various symbols (see chapter "Symbols overview" ⇨ 170) that indicate traffic information and general information or points of interest.

### Note

To change to full map display: press **NAV** button twice.

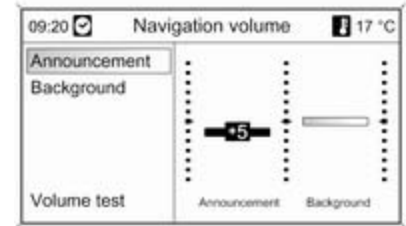
## Setting up the navigation system

Press the **CONFIG** button and then select **Navigation settings** to open a menu with navigation-specific settings.



### Navigation volume

The relative volumes of the navigation message (**Announcement**) and the audio source (**Background**) during a navigation message can be preset.



Set the desired values for **Announcement** and **Background**.

To test the current settings: select **Volume test**.

### TMC settings

Select **Infotypes** to open a submenu with various options to define whether and which traffic message infotypes are to be displayed on the active route guidance map.

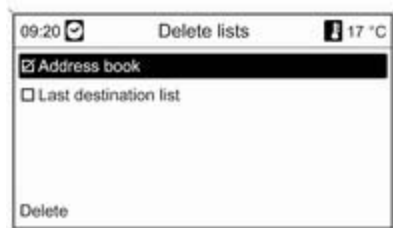
When **User defined** is selected, the infotypes that are to be displayed can be defined.

**Sort criteria**

Select whether traffic messages are to be displayed in an order based on distance or street name.

**Warning messages when route guidance is inactive**

Decide whether the Infotainment system should announce warning messages even if no route guidance is active.

**Delete lists**

Select whether all entries in the **Address book** or in the **Last destinations** are to be deleted.

**Import individual POIs**

Only applicable if a USB drive with points of interest (POI) data stored on it is connected to the USB port ➤ 122 of the Infotainment system.

Importing POI data from a USB drive, see "Exporting and importing POI data" below.

**Delete all imported POIs**

Only applicable if POI data were imported to the Infotainment system, see "Exporting and importing POI data" below.

Select this menu item to remove all imported POI data from the myPOIs memory of the Infotainment system.

**Note**

It is not possible to directly remove individual imported points of interest from the myPOIs memory.

If you want to remove individual imported POIs: import updated POI data to the Infotainment system that do not contain the address data of the regarding POIs.

To remove all imported POIs of a certain category: import an empty POI data file of the regarding category to the Infotainment system.

**Export POIs**

Exports all POI data stored in the myPOIs memory of the Infotainment system to a USB drive connected to the USB port ➤ 122, see "Exporting and importing POI data" below.

**Delete Home address**

Deletes the currently set home address (displayed in the **Enter destination** menu, see chapter "Destination input" ➤ 140).

**myPOIs announcement**  
(only Navi 900)

Using this menu option you can activate and set up the myPOIs announcer of the Infotainment system.

If activated and correspondingly set up, the myPOIs announcer will automatically notify you via a message on the display and a beep when the vehicle approaches a point

of interest stored in the myPOIs memory, see "myPOIs announcer" below.

## Exporting and importing POI data

### Introductory explanations

#### Types of POI data

The Infotainment system provides the following types of points of interest data:

- **Predefined Points of Interest** stored on the map SD card and indicated by icons on the map display.  
You can store such predefined POIs in the address book or as individual POIs in the myPOIs memory of the Infotainment system, see below.
- **Favourite destination addresses** that were stored in the **Address book**.  
You can export these address book data to a USB drive for later use, e.g., in other cars.

- **Individual POIs:** favourite destination addresses that were stored in the myPOIs memory.

You can export these individual POI data to a USB drive for later use, e.g., in other cars.

- **User defined POIs:** favourite destination addresses that you defined via GPS coordinates (taken, e.g., from a topographical map) and that you entered into text files.

You can store these user defined POI data on a USB drive and later import the data to the myPOIs memory of the Infotainment system, see below.

- **Imported POIs:** favourite destination addresses that were previously stored on a USB drive and then imported to the myPOIs memory of the Infotainment system.

### Advantages of POI export and import

The export and import of points of interest data offer you, e.g., the following advantages:

- Define and store your favourite destination addresses only once, and later use these address data in other cars.

See "Exporting and importing individual POIs and address book entries" below.

- Define your favourite destination addresses conveniently at home, and later use them in your car.

See "Creating and importing user defined POIs" below.

- Clearly arrange a large amount of destination addresses, e.g., favourite destination addresses of other family members or destination addresses for your next journey or business trip in separate submenus.

See "Organizing the POI data in several subfolders" below.



## Exporting and importing individual POIs and address book entries

### Brief description:

1. Connect a USB drive to the USB port of your car's Infotainment system.
2. Store (export) your favourite destination addresses on the USB drive.
3. Connect the USB drive to the USB port of a car equipped with a Navi 600 or Navi 900 system.
4. Download (import) the address data to the car's Infotainment system.

After the import, the addresses can be selected as destinations for route guidance.

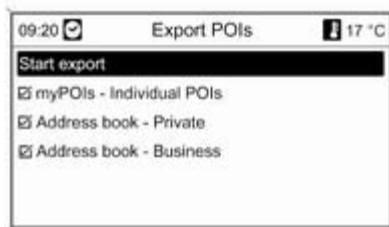
Detailed descriptions see below.

### Exporting POI data to a USB drive

Connect a USB drive to the USB port of the Infotainment system, see chapter "USB port" ⇨ 122.

Press the **CONFIG** button, select **Navigation settings** and then select **Export POIs**.

The **Export POIs** menu is displayed.



By default all individual POIs stored in the myPOIs memory and all address book entries will be exported.

If desired, deselect the address data types that you do not want to be exported.

Select **Start export** to store the address data of the selected type(s) on the connected USB drive.

The address data will be stored in a folder named **myPOIs** that is located in the root directory of the USB drive.

For each exported POI category, e.g. **Restaurant** or **Private**, you will find a correspondingly named file in that folder.

Examples:

**F:\myPOIs\Restaurant\_3.poi** or **F:\myPOIs\Private\_1.poi**, where F:\ is the root directory of the USB drive.

### Note

If files with POI data of the same category are already stored on the USB drive in the **myPOIs** folder, these old file versions will be overwritten by equally named new file versions.

The folder **myPOIs** and the files with POI data should not be renamed or moved into another folder on the USB drive. Otherwise the Infotainment system will not be able to import the address data again.

### Importing POI data from a USB drive

Connect a USB drive with POI data stored on it (details see above) to the USB port of the Infotainment system, see chapter "USB port" ⇨ 122.

To start the import: press the **CONFIG** button, select **Navigation settings**, select **Import individual POIs** and then select **Continue**.

All POI data stored on the USB drive is imported to the myPOIs memory of the Infotainment system.

After the import is finished, the imported POIs are selectable as destinations via the **Enter destination** menu, see chapter "Destination input" ⇨ 140.

### Creating and importing user defined POIs

User defined points of interest need to be defined via GPS coordinates that can be taken, e.g., from a topographical map.

The GPS coordinates and further address data need to be entered into text files, each file representing a POI category.

#### Brief description:

1. Create the text files for the POI data.
2. Enter the desired address data into the text files.

3. Store the text files with your POI data on a USB drive.
4. Connect the USB drive to the USB port of your car's Infotainment system.
5. Download (import) the text files with your POI data to the Infotainment system.

After the import, the addresses can be selected as destinations for route guidance.

Detailed descriptions see below.

#### Creating the text files for POI data

You can assign your favourite destination addresses to 20 different POI categories, with each POI category assigned a number, see "POI categories and assigned numbers" below.

For each POI category you need to create a separate text file.

The text files can be created, e.g., by using a simple text editor software.

#### Note

The text editor must support the UTF-8 character encoding for Unicode.

Each text file name need to consist of the category name, a single underscore, the category's number and the file extension **.poi**.

#### Example file names:

- **Business\_2.poi**
- **Home & Living\_8.poi**
- **Culture\_15.poi**

#### Note

The length of the text file names is limited to 32 characters.

#### POI categories and assigned numbers:

(1) **Private**, (2) **Business**, (3) **Restaurant**, (4) **Hotel**, (5) **Automotive**, (6) **Travel**, (7) **Cinema**, (8) **Home & Living**, (9) **Shopping**, (10) **Craft**, (11) **Sport**, (12) **Sight**, (13) **Health care**, (14) **Leisure**, (15) **Culture**, (16) **Nightlife**, (17) **Communication**, (18) **News & broking**, (19) **Government office**, (20) **General**.

#### Entering POI data into the text files

The image below shows a sample text file named **Home & Living\_8.poi** with some sample POI data:



The POI data need to be entered into the text files in the following format:

**Longitude coordinate, Latitude coordinate, "Name of POI", "Any additional information", "Phone number (optional)"**

Example: **7.0350000, 50.6318040, "Michaels Home", "Bonn - Hellweg 6", "02379234567"**, see image above.

The GPS coordinates need to be expressed in decimal degrees.

The maximum length of the POI name is 60 characters. The same applies to the additional information string and the phone number string.

The POI data of each destination address need to be entered in a single separate line, see image above.

### Storing the text files on a USB drive

The text files with POI data need to be stored in a folder named **myPOIs** that is located in the root directory of the USB drive.

Example: **F:\myPOIs\Home & Living\_8.poi**, where **F:\** is the root directory of the USB drive.

After importing the individual POI data to the Infotainment system (see import description further below), the **Imported POIs** menu will show a list of selectable POI categories like the following:

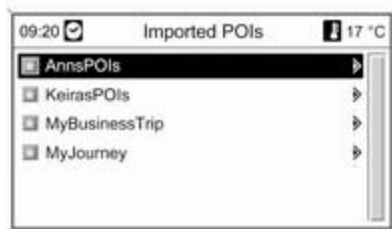


### Organizing the POI data in several subfolders

Optionally you can organize the text files in several, arbitrary named, subfolders.

Examples: **F:\myPOIs\AnnsPOIs** or **F:\myPOIs\MyJourney**, where **F:\** is the root directory of the USB drive.

After importing individual POI data organized in that way to the Infotainment system (see import description further below), the **Imported POIs** menu will show a list of selectable submenus like the following:



After selecting a submenu, the related list of imported POI categories will be displayed.

### Importing the POI data to the Infotainment system

Connect the USB drive with your individual POI data to the USB port of the Infotainment system, see chapter "USB port" ↗ 122.

To start the import: press the **CONFIG** button, select **Navigation settings**, select **Import individual POIs** and then select **Continue**.

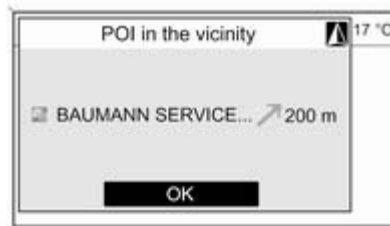
All POI data stored on the USB drive is imported to the myPOIs memory of the Infotainment system.

After the import is finished, the imported POIs are selectable as destinations via the **Enter destination** menu, see chapter "Destination input" below.

### myPOIs announcer

(only Navi 900)

Via the myPOIs announcer you can be notified via a message on the display (see image below) and a beep when the vehicle approaches a point of interest (POI) stored in the myPOIs memory of the Infotainment system.



Detailed descriptions on POIs stored in the myPOIs memory, see "Exporting and importing POI data" above and chapter "Destination input" below.

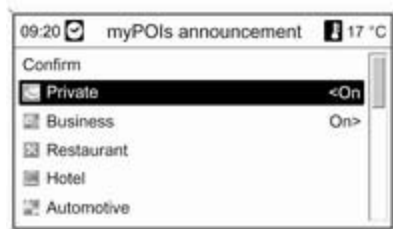
If route guidance is active, you are notified only when the vehicle approaches a POI which is located next to a road on the calculated route.

If route guidance is inactive, you are notified when the vehicle approaches a POI which is located next to the road you are currently driving on. Additionally you are notified when the vehicle approaches a POI which is located next to an adjacent road, and if the system considers it very probable that you will turn into that road next.

### Setting up the myPOIs announcer

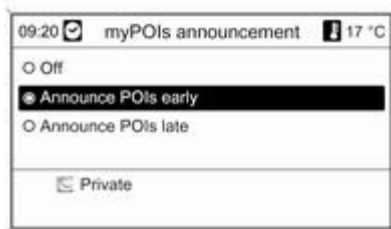
Press the **CONFIG** button, select **Navigation settings** and then select **myPOIs announcement**.

A menu is displayed that shows the POI categories currently stored in the myPOIs memory.



You can now determine, which of the displayed POI categories should be considered by the myPOIs announcer for later notifications.

Select a POI category. The menu shown below is displayed.



You can now determine in which relative distance to POIs of the selected category you want to be notified when approaching them.

Select **Announce POIs early** if you want to be notified already when the vehicle is still relatively far away (approx. 400 m) from the location of the regarding POI.

Select **Announce POIs late** if you want to be notified only when the vehicle is already relatively close (approx. 200 m) to the location of the regarding POI.

After selecting the desired option, the list of POI categories is displayed again.

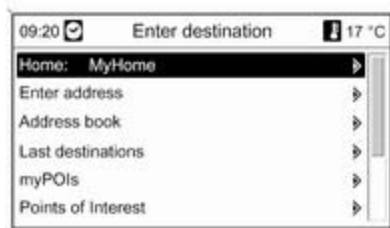
If you selected **Announce POIs early** for a category, the regarding list entry is now set to **<On**.

If you selected **Announce POIs late** for a category, the regarding list entry is now set to **On>**.

After selecting and setting up all desired POI categories, select **Confirm** to store the new myPOIs announcer settings.

## Destination input

Press the **DEST** button to open a menu with various options for entering or selecting a destination.



- **Home:** selection of the currently set home address (if available). Setting/changing the home address, see "Setting the home address" below.

After selecting the home address, the Infotainment system immediately calculates a route from the current position to the home address and then starts route guidance.

- **Enter address:** direct entry of a destination address with country, city, street and house number. See "Entering an address directly" below.

- **Address book:** selection of a destination address stored in the address book. See "Selecting an address from the address book" below.

See also "Storing an address in the address book or myPOIs memory" and "Editing or deleting a stored address" below.

- **Last destinations:** selection from a list of recently selected destinations. See "Selecting a previous destination" below.

- **myPOIs:** selection of a destination address stored in the myPOIs memory. See "Selecting an address stored in the myPOIs memory" below.

See also "Storing an address in the address book or myPOIs memory" and "Editing or deleting a stored address" below.

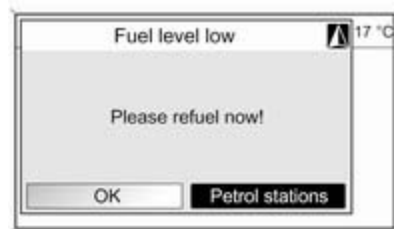
- **Points of Interest:** selection of POIs (addresses of, e.g., restaurants, petrol stations, hospitals etc.) stored on the map SD card of the

Infotainment system. See "Selecting a point of interest" below.

- **Select from map:** selection of a destination from the map display using the eight-way switch ↵ 76. See "Selecting a destination from the map" below.
- **Latitude / Longitude:** selection of a destination using geographic coordinates. See "Selecting a destination via geographic coordinates" below.

### Selecting a petrol station as destination after a Fuel level low alert

When the fuel level in the vehicle's tank is low, an alert message is displayed.



To start a search for petrol stations close to the vehicle's current position: select **Petrol stations**.

After the search is finished, a list of all found petrol stations is displayed.



Below the list detailed information on the currently marked petrol station is displayed: the approximate direction to the petrol station, the address, the distance and the available fuel types (in addition to petrol and Diesel).

Abbreviations used for fuel types:  
**CNG** (Compressed natural gas),  
**LPG** (Liquefied petroleum gas).

### Starting route guidance to a petrol station

Select the desired petrol station.

The **Navigation** menu is displayed.

Select **Start navigation** to start route guidance to the displayed address.

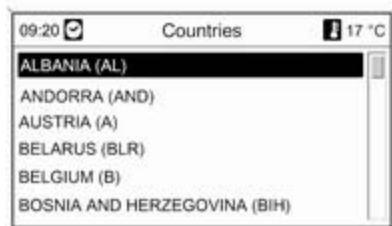
Description on route guidance, see chapter "Guidance" ↗ 158.

### Entering an address directly

Press the **DEST** button and then select **Enter address** to open the menu shown below.



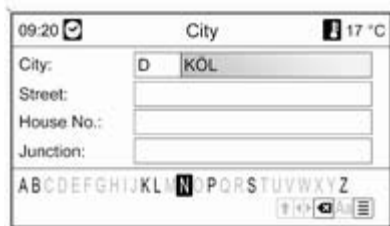
To change/select the country: mark the country input field (see image above) and then press the multifunction knob to open the **Countries** menu.



Select the desired country.

### Entering an address using the speller function

Mark the **City:** input field and then press the multifunction knob to activate the speller function.



Using the multifunction knob, successively mark and accept the letters for the desired city. During this process the system will automatically block letters that cannot occur next in the city name.

The following symbols can be selected in the bottom line:

- ↑ : Lists with special letters are displayed in the bottom line.
- ◀▶ : Previous/next letter is marked.
- ✕ : Delete last letter.
- Aa : Upper, lower case.

☰ : List function - once two letters have been entered (in some cases just one letter), all names available with these letters are displayed. The more letters are entered, the shorter becomes the list.

**OK** : Complete entry or accept search term.

By a long press on the **BACK** button all letters entered are deleted at once from the input line.

Repeat the process for the remaining input fields (entering a house number or junction is optional).





After completing the address, select **OK**.

The **Navigation** menu is displayed.

### Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 158.

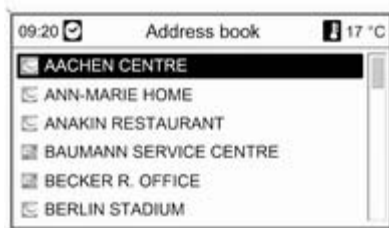
### Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

### Selecting an address from the address book

Press the **DEST** button and then select **Address book**.



Select the desired address book entry.

The **Navigation** menu is displayed.

### Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 158.

### Selecting a previous destination

Press the **DEST** button and then select **Last destinations** to open the menu shown below.



A list of the most recently used destination addresses is displayed.

Select the desired destination.

The **Navigation** menu is displayed.

### Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 158.

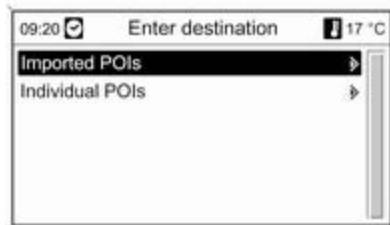
### Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

### Selecting an address stored in the myPOIs memory

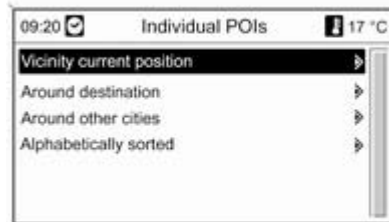
Press the **DEST** button and then select **myPOIs** to open the menu shown below.



#### Note

The option **Imported POIs** is only selectable if points of interest (address) data were downloaded from a USB drive, see "Exporting and importing POI data" in section "Usage" above.

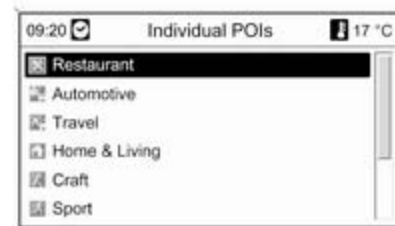
Select the desired option. A menu with various sorting options is displayed.



The sorting options determine in which order the addresses of the individual/imported points of interest will be displayed later.

Select the desired sorting option.

A menu with the currently available points of interest categories is displayed.



Select the desired category.

A menu with a list of all available points of interest of the selected category (e.g. **Restaurant**) is displayed.

#### Note

Points of interest which are far away from the vehicle's current position may not be displayed in the list.



Below the list detailed information on the currently marked point of interest is displayed: the approximate direction to the point of interest, the address and the distance.

### Starting route guidance to a point of interest

Select the desired point of interest.

The **Navigation** menu is displayed.

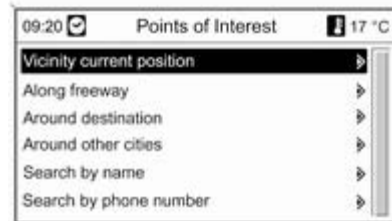
Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 158.

### Selecting a point of interest

Press the **DEST** button and then select **Points of Interest**.

A menu with various options for the selection of points of interest (e.g. restaurants, petrol stations, hospitals etc.) is displayed.



### Vicinity current position

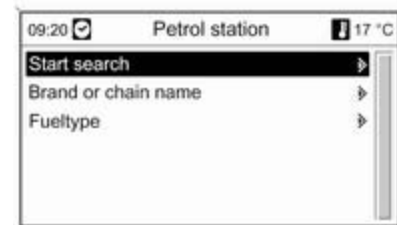
Selection of points of interest close to the vehicle's current position.

After selecting the option, a list of all available points of interest categories is displayed.

For example, you are looking for a petrol station:

### Select **Automotive & Petrol Stations**.

A menu is displayed that provides options for further refinement of the petrol station search.



After selecting **Start search**, a search for all petrol stations in the area is started. The search takes into account all petrol stations that meet the currently set filter criteria for **Brand or chain name** and **Fueltype** (changing the filter criteria, see "Setting filters for search refinement" below).

After the search is finished, a list of all found petrol stations is displayed.

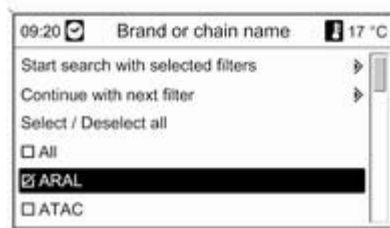


Below the list detailed information on the currently marked petrol station is displayed: the approximate direction to the petrol station, the address, the distance and the available fuel types (in addition to petrol and Diesel).

Abbreviations used for fuel types:  
**CNG** (Compressed natural gas),  
**LPG** (Liquefied petroleum gas).

### Setting filters for search refinement

After selecting **Brand or chain name**, a list is displayed with all available petrol station brands/chains in the area.



The number of petrol stations can be reduced by marking at least one petrol station brand/chain.

After marking the desired brands/chains: select **Start search with selected filters** or, for further refinement of the search, select **Continue with next filter** (fuel types).

After selecting **Fueltype**, a list is displayed with all fuel types available (in addition to petrol and Diesel) at petrol stations in the area.

The number of petrol stations can be reduced by marking at least one fuel type.

After marking the desired fuel types: select **Start search with selected filters** or, for further refinement of the search, select **Continue with next filter** (petrol station brands/chains).

After starting a search, a list of all petrol stations that meet the previously selected filter criteria is displayed.

Select the desired petrol station.

The **Navigation** menu is displayed.

### Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 158.

### Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

**Along freeway**

Selection of motorway related points of interest (e.g. petrol stations or service areas) along the route. Only available when you are currently driving on a motorway.

Selecting a point of interest: see example above for „Vicinity current position“.

**Around destination**

Selection of points of interest close to the destination entered.

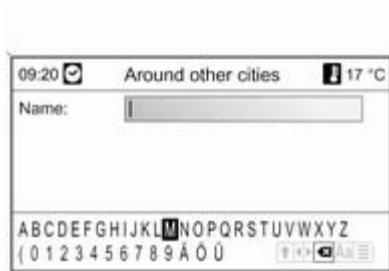
Selecting a point of interest: see example above for „Vicinity current position“.

**Around other cities**


Selection of points of interest around any city.

After selecting the option, a country list is displayed.

Select the desired country. A menu for entering a city name is displayed.



Enter the desired city using the speller function, see "Entering an address using the speller function" above.

Once the entry is specific enough, a list with possible cities is displayed. Sometimes it may be necessary to select  for displaying the list.

Select the desired city. A menu appears on which the points of interest close to the selected city are listed by category.

Selecting a point of interest: see example above for „Vicinity current position“.

**Search by name**


Selection of points of interest by entering a name.

After selecting the option, a country list is displayed.

Select the desired country. A menu for name input is displayed.



Enter the name of the desired point of interest using the speller function, see "Entering an address using the speller function" above.

Once the entry is specific enough, a list with possible points of interest is displayed. Sometimes it may be necessary to select  for displaying the list.

Select the desired point of interest.

The **Navigation** menu is displayed.

### Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 158.

### Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

### Search by phone number


Selection of points of interest by entering a telephone number.

After selecting the option, a country list is displayed.

Select the desired country. A menu for number input is displayed.



Enter the desired telephone number using the speller function, see "Entering an address using the speller function" above.

Once the entry is specific enough a list with possible telephone numbers (each number representing a point of interest) is displayed. Sometimes it may be necessary to select  for displaying the list.

Select the desired point of interest.

The **Navigation** menu is displayed.

### Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 158.

### Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

### Selecting a destination from the map

Press the **DEST** button and then select **Select from map** (alternatively: press the **NAV** button twice and then press the eight-way switch on the multifunction knob ↗ 76).

A menu with a map showing the area around the current location is displayed.



### Note

The map scale can be changed by turning the multifunction knob.

Using the eight-way switch on the multifunction knob ↻ 76 position the crosswire on a destination on the map.

Press the multifunction knob to confirm the selection.

The **Navigation** menu is displayed.

### Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↻ 158.

### Storing the address

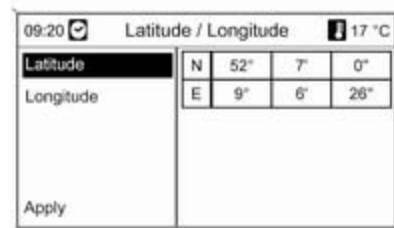
Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

### Selecting a destination via geographic coordinates

Press the **DEST** button and then select **Latitude / Longitude**.

A menu that allows the input of geographic coordinates as destination address is displayed.



### Entering the Latitude coordinate

1. Select **Latitude**.
2. Turn the multifunction knob to select **N** or **S** (north or south of the equator).
3. Press the multifunction knob to confirm the selection.
4. Turn the multifunction knob to enter the desired degrees of latitude.
5. Press the multifunction knob to confirm the entry.
6. Enter the desired values for the latitude minutes and seconds.

### Entering the Longitude coordinate

1. Select **Longitude**.
2. Turn the multifunction knob to select **W** or **E** (west or east of the prime meridian in Greenwich).
3. Press the multifunction knob to confirm the entry.
4. Enter and confirm the desired values for the longitude degrees, minutes and seconds.

Select **Apply** to confirm the displayed coordinates.

The **Navigation** menu is displayed.

### Starting route guidance

Select **Start navigation** to start route guidance to the displayed address.

Description on route guidance, see chapter "Guidance" ↗ 158.

### Storing the address

Select **Store** if you want to store the displayed address in the address book or myPOIs memory.

The **Store** menu is displayed, see "Storing an address in the address book or myPOIs memory" below.

### Storing an address in the address book or myPOIs memory

The Infotainment system provides two separate memory areas where you can store your favourite destination addresses: the address book and the myPOIs memory.

Before storing an address in one of these memory areas, you need to assign the address to a category:

- If you want to store an address in the address book, you need to assign the address to the categories **Private** or **Business**.
- If you want to store an address in the myPOIs memory, you can choose from 18 categories (e.g. **Restaurant**, **Travel** or **Culture**).

### Storing an address in the address book

Press the **DEST** button to open the **Enter destination** menu, and then select an option for the input or selection of a destination address (e.g. **Enter address** or **Last**

**destinations**), see regarding descriptions on address input or selection above.

After entering or selecting the desired destination address, the **Navigation** menu is displayed.

Select **Store**.

The menu **Store** is displayed, with the previously entered or selected destination address as default name.

The default name can be changed (see example in the image below) using the speller function, see "Entering an address using the speller function" above.

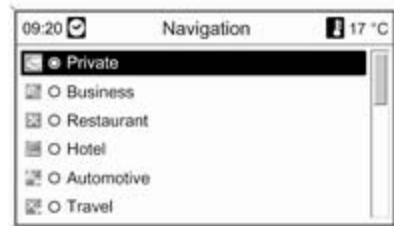




A telephone number can be entered optionally.

The default category **Private** can be changed to **Business**:

Select the displayed category to open a menu with a list of all available address categories.



### Note

If you select one of the categories **Private** or **Business**, the destination address will be stored in the myPOIs memory not in the address book.

Select **Business**.

The menu **Store** is displayed again.

Select **OK** to store the destination address in the address book using the displayed name and category.

A maximum of 100 destination addresses can be stored in the address book.

### Storing an address in the myPOIs memory

Storing a destination address in the myPOIs memory functions the same as described above for the address book.

The only difference: select a category different from **Private** or **Business**, e.g. **Restaurant**, **Automotive** or **Shopping**.

### Note

If you select one of the categories **Private** or **Business**, the destination address will be stored in the address book not in the myPOIs memory.

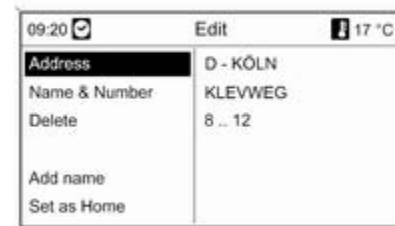
### Editing or deleting a stored address

Address data (including the category and telephone number) stored in the address book or myPOIs memory can be edited or entirely deleted at any time.

### Editing or deleting an address book entry

Press the **DEST** button, select **Address book**, select the desired address entry and then select **Edit**.

The **Edit** menu is displayed.



The following options are available:

- **Address:** opens the **Enter address** menu. You can edit the displayed address using the speller function, see "Entering an address using the speller function" above.

After confirming the edited address, the **Navigation** menu is displayed again.

If you want to edit also the name or change the category, you need to select the regarding address in the address book again, see above.

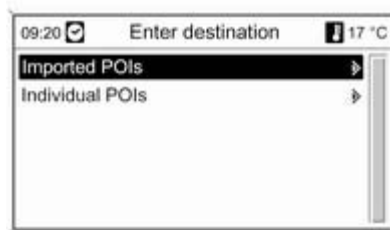
- **Name & Number:** after selecting this option, you can edit the name of the address book entry, edit the telephone number or select a new category, see "Storing an address in the address book" above.
- **Delete:** deletes the displayed address from the address book.
- **Add name** (only Navi 900): assigns a name (voice tag) to the displayed address. The regarding address can be selected later as destination

by simply saying the assigned name, see chapter "Speech recognition".

- **Set as Home:** sets the displayed address as home address, see "Setting the home address" below.

### Editing or deleting a myPOIs entry

Press the **DEST** button and then select **myPOIs** to open the menu shown below.



### Editing or deleting Individual POIs

Select **Individual POIs**, select the desired sorting option (e.g. **Vicinity current position**), select the desired category (e.g. **Restaurant**), select the desired address and then select **Edit**.

The **Edit** menu is displayed.

Editing or deleting the displayed myPOIs entry functions the same as described for an address book entry, see above.

### Notes on Imported POIs

Imported points of interest (POIs downloaded from a USB drive) cannot be edited directly.

**If you want to edit the address data of an imported POI:**

- You first need to store the address in the address book or as an individual point of interest. Then you can edit the address data of the

regarding address book entry or myPOIs entry (selectable via **Individual POIs**).

- Or you can import updated address data from a USB drive, see "Exporting and importing POI data" in chapter "Usage" above.

It is also not possible to directly remove the address data of individual imported points of interest from the myPOIs memory.

#### If you want to remove individual imported POIs:

Import updated POI data to the Infotainment system that do not contain the address data of the POIs which you want to be removed.

To remove all imported POIs of a certain category: import an empty POI data file of the regarding category.

Descriptions on importing POI data, see "Exporting and importing POI data" in chapter "Usage" above.

#### Deleting all imported POIs at once:

Press the **CONFIG** button, select **Navigation settings** and then select **Delete all imported POIs**.

### Setting the home address

Before you can set an address as home address, you need to store this address in the address book or myPOIs memory, see corresponding descriptions above.

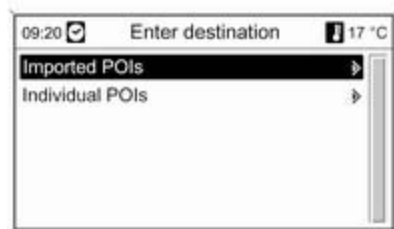
#### Setting an address book entry as home address

Press the **DEST** button, select **Address book**, select the desired address entry, select **Edit** and then select **Set as Home**.

The displayed address is set as new home address and displayed as first option in the **Enter destination** menu.

#### Setting a myPOIs entry as home address

Press the **DEST** button and then select **myPOIs** to open the menu shown below.



#### Setting an individual POI as home address

Select **Individual POIs**, select the desired sorting option (e.g. **Vicinity current position**), select the desired category (e.g. **Restaurant**), select the desired address, select **Edit** and then select **Set as Home**.

The displayed address is set as new home address and displayed as first option in the **Enter destination** menu.

#### Notes on Imported POIs

Imported points of interest (POIs downloaded from a USB drive) cannot be set as home address directly.

If you want to set the address of an imported POI as home address:

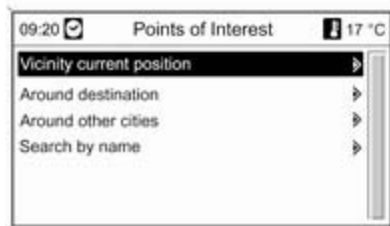
You first need to store the address in the address book or as an individual point of interest.

Then you can set the address data of the regarding address book entry or myPOIs entry (selectable via **Individual POIs**) as home address.

## Travel guide

(only Navi 900)

Press the **DEST** button and then select **Travel guide**.



Various options for the selection of points of interest based on travel guide criteria (e.g. accommodation, sights, leisure etc.) are displayed.

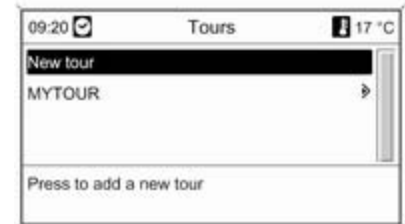
Selecting a point of interest based on travel guide criteria: see the corresponding descriptions in „Selecting a point of interest“.

## Tours

(only Navi 900)

A tour makes it possible to enter a series of destinations for driving to one after the other. This function is suitable for regular, repetitive tours so that it is not necessary to re-enter individual destinations. Tours are saved using a name. A maximum of ten tours with 9 intermediate destinations can be saved. An existing tour can be changed by modifying the order of the destinations or by adding or deleting destinations.

## Adding a tour

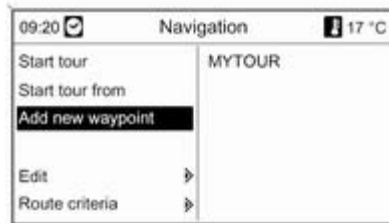


After selecting **New tour**, enter a name for the tour using the speller function ⇨ 140.



Accept the entered name using **OK**. The name is displayed on the **Tours** menu.

### Adding intermediate destinations to the tour



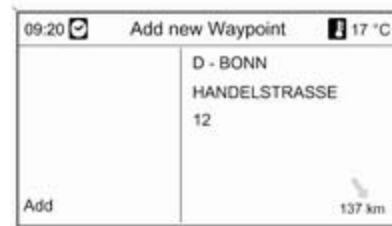
Select the new tour and then **Add new waypoint**.

In the submenu **Add waypoint** the following options for selecting/entering intermediate destinations are displayed:

- **Enter waypoint** (address entry)
- **Address book**
- **Last destinations**
- **Select from map**
- **Points of Interest**

Select an option for destination input and then select/enter the desired intermediate destination ↷ 140.

A menu is displayed that shows the address data of the selected/entered intermediate destination.



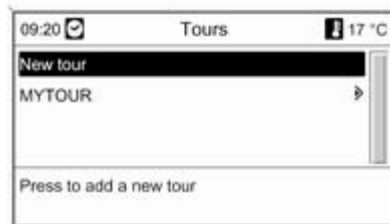
After selecting **Add** a list with all previously added intermediate destinations is displayed.



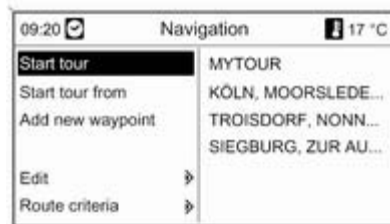
By default new waypoints are added at the end of the list. If another position is desired turn the multifunction knob to select another insertion point.

Repeat the described procedure to add further intermediate destinations.

### Starting a tour



Select a tour in the **Tours** menu. The **Navigation** menu is displayed.



To start route guidance: select **Start tour**. All predefined intermediate destinations are taken into account for route calculation.

If you want to skip predefined intermediate destinations on the tour and start direct route guidance to a certain destination: select **Start tour from**. A list with all predefined intermediate destinations is displayed.



Select the desired next destination. A route is calculated that leads directly to the selected intermediate destination.

### Editing a tour

Select a tour in the **Tours** menu and then select **Edit tour** to display a submenu with the following options:



### Show tour

Displays a list with all intermediate destinations on the selected tour.

### Move waypoints

Displays a list with all intermediate destinations on the selected tour.

Mark the intermediate destination to be moved.

Press the multifunction knob to cut out the marked destination.

To insert the cut out destination at the end of the list: press the multifunction knob again.

To insert the cut out destination before another destination: mark this destination and then press the multifunction knob.

### Delete waypoints

Displays a list with all intermediate destinations on the selected tour.

Mark the desired intermediate destination and then press the multifunction knob.

Confirm the displayed message.

### Delete tour

Deletes the currently selected tour entirely.

To execute deletion confirm the displayed message.

### Edit name

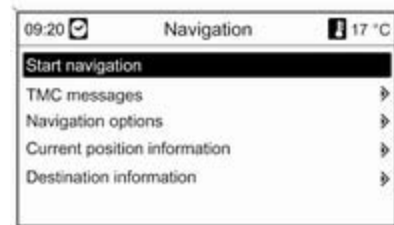
The name of the currently selected tour can be edited using the speller function ⇨ 140.

## Guidance

Press the **NAVI** button and then the multifunction knob to display the navigation main menu.

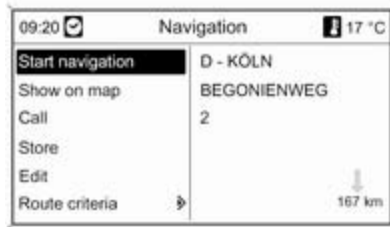
Depending on whether the route guidance is currently inactive or active, different menu options are available.

### Functions with route guidance inactive



### Start navigation

After selecting **Start navigation** the menu shown below is displayed.



The following options are available:

- **Start navigation:** start route guidance to the displayed address.
- **Show on map:** show the location of the displayed address on the map.
- **Call:** if the address data includes a telephone number and a phone portal is available, the telephone number will be dialed.
- **Store:** store the displayed address in the address book or myPOIs memory, see "Storing an address in the address book or myPOIs memory" in chapter "Destination input" above.

- **Edit:** change/edit the displayed address, see "Editing or deleting a stored address" in chapter "Destination input" above.
- **Route criteria:** set/change criteria for route calculation, see "Navigation options" below.

### TMC messages

Information on TMC, see chapter "Dynamic guidance" ⇨ 129.

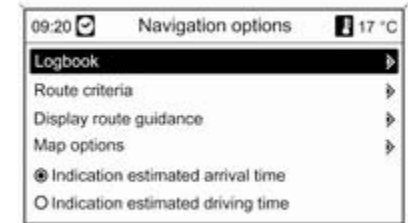
Select **TMC messages** to display a list of all TMC traffic messages that are currently received.



Select a TMC traffic message to display detailed information on the related traffic issue.

### Navigation options

The corresponding menu provides options and a multitude of relating submenus for route guidance configuration.



### Logbook

(only Navi 900)

The logbook feature allows you to record each trip done with the vehicle.

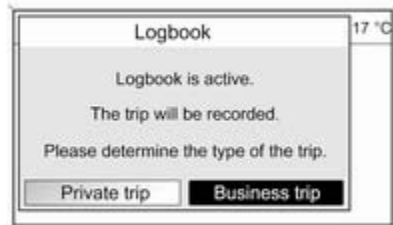


**Note**

The logbook function of the Infotainment system meets no official legal requirements.

In case the logbook feature is currently activated (see "Logbook settings" below):

When you switch on the ignition the first time after inserting the ignition key, you are prompted by a message to determine the type of the upcoming trip:



For each trip the following data will automatically be recorded:

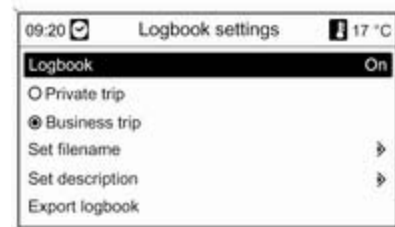
- A unique serial number for the trip (for unambiguous labelling of trips).
- Start and destination position (geographic coordinates).
- Start and arrival time.
- Start and destination odometer reading.
- The determined type of the trip.
- An optional descriptive text (see "Logbook settings" below).

**Start of a trip:** is determined by inserting the ignition key and then switching on the ignition.

**End of a trip:** is determined by removing the ignition key (not by only switching off the ignition). As long as the ignition key is not removed, the system continues to record the current trip.

**Data storage/export:** the recorded trip/logbook data will be stored in the Infotainment system's memory. These data can be exported later at

any time to a USB drive connected to the USB port ↗ 122 of the Infotainment system.

**Logbook settings:**

- **Logbook:** activates/deactivates the logbook feature.
- **Private / Business trip:** determines the type of an upcoming trip.

The selected type can be changed when starting a trip (see image of logbook message above), or at any time during a trip via this menu.

In the logbook data a private trip is indicated by a "0", a business trip by

a "1", see "Sample logbook data" below.

- **Set filename:** using the speller function (see chapter "Destination input") you can enter a base filename (max. 15 characters) for storing the logbook data on a USB drive.

The system will add "Logbook" in the beginning and the current date and time at the end of the base filename, e.g.,  
"Logbook\_myTrips\_2011.09.23\_09.45.txt".

- **Set description:** using the speller function, you can enter an optional descriptive text (max. 80 characters) that will be added to the logbook data of a trip, see "Sample logbook data" below.

The description will be added to the logbook data of each upcoming trip as long as the description is not changed.

If you enter/change a description during a trip, the description will be added to the logbook data of the current trip.

- **Export logbook:** exports all recorded trip data currently stored in the Infotainment system's memory to a USB drive connected to the USB port ⇨ 122 of the Infotainment system.

The data will be stored in a simple text file in the root directory of the USB drive. Example:

"F:  
\\Logbook\_myTrips\_2011.09.23\_09.45.txt"

- **Erase logbook:** erases all recorded trip data from the Infotainment system's memory.

#### Sample logbook data:

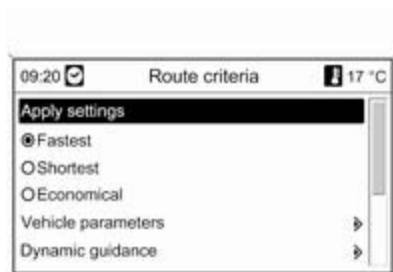
The following sample data represent a single recorded trip. The data is stored in the exported text file in a single line. The individual data items are separated by semicolons:

0000000023; N 52° 07' 01"; E 009° 53' 31"; 22.09.2011; 13:53; 013550; N 52° 07' 00"; E 009° 53' 00"; 22.09.2011; 14:47; 013580; 1; "My trip to XY Company (Project 77)"

Description of the individual data items:

- 0000000023 = serial number
- N 52° 07' 01"; E 009° 53' 31" = start position in geographic coordinates (Latitude; Longitude)
- 22.09.2011; 13:53 = start date; time
- 013550 = odometer reading at start position
- N 52° 07' 00"; E 009° 53' 00" = destination coordinates
- 22.09.2011; 14:47 = arrival date; time
- 013580 = odometer reading at destination
- 1 = business trip
- "My trip to ..." = optional descriptive text.

## Route criteria

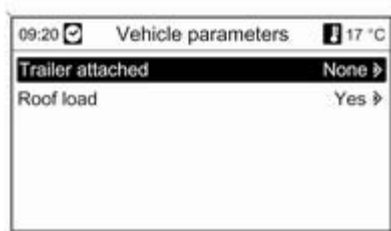


The calculation of the route can be controlled by various criteria.

Select one of the following criteria:

- **Fastest**
- **Shortest**
- **Economic:** an energy-optimized route is calculated, taking into account the vehicle-specific parameters that are currently set in the **Vehicle parameters** menu, see below.

Select **Vehicle parameters** to open a menu for the selection of vehicle-specific parameters.

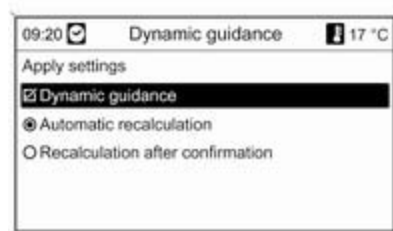


The selected settings will be taken into account for route calculation, if **Economic** is currently selected, see above.

After setting the desired vehicle parameters, press the **BACK** button to leave the menu.

Select **Dynamic guidance** to open a menu for the configuration of dynamic route guidance.

Information on dynamic route guidance, see chapter "Dynamic guidance" ⇨ 167.



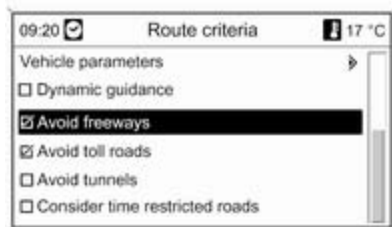
Select **Dynamic guidance** to activate/deactivate dynamic route guidance.

If dynamic route guidance is activated:

Select **Automatic recalculation** if you want the route be recalculated automatically when there are traffic problems.

Select **Recalculation after confirmation** if you want the route be recalculated only after confirming the corresponding message.

Select **Apply settings** to activate the displayed settings and to leave the menu.

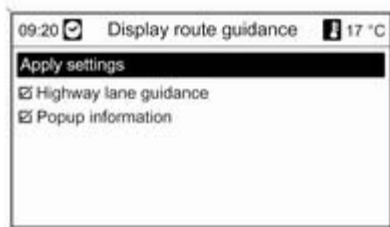


If desired select one or several of the following options in the **Route criteria** menu:

- **Avoid freeways**
- **Avoid toll roads**
- **Avoid tunnels**
- **Avoid ferries**
- **Consider time restricted roads**

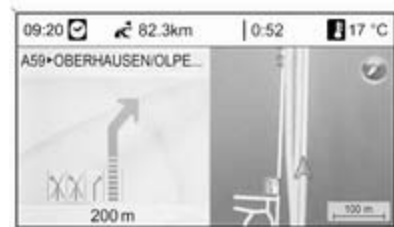
#### Display route guidance

The following options are available for the display of route guidance:



Using the **Highway lane guidance** option, you can determine which type of illustration should be displayed when reaching a highway intersection.

If **Highway lane guidance** is deactivated the following type of illustration will be displayed:



If **Highway lane guidance** is activated the following type of illustration will be displayed:

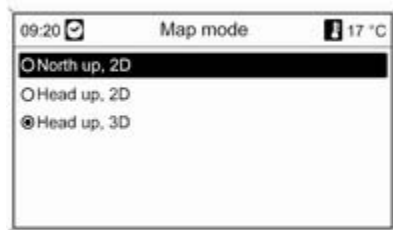


Using the **Popup information** option, you can select whether route guidance information from the navigation should be displayed in popup windows in other operating modes (e.g. radio). The information is hidden after a set time or by pressing the **BACK** button.

Select **Apply settings** to activate the displayed settings and to return to the **Navigation options** menu.

### Map options

Select **Map options** and then **Map mode** to display the following submenu:



Select between map orientation (North up/Head up) and dimension (2D/3D) on the map display (3D only available for Navi 900).

Select **Map options** and then **Show POIs on map** to open a submenu with various options to define whether and which points of interest should be displayed on the map.

When **User defined** is selected the type of points of interest can be defined that should be displayed, e.g. restaurant, hotel, public places, etc.

### Display of arrival time or driving time

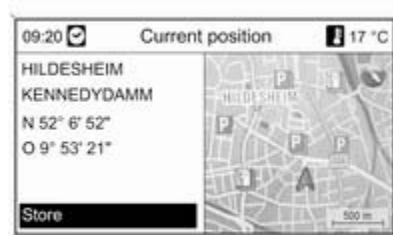
After selecting the option **Indication estimated driving time** or **Indication estimated arrival time** in the menu **Navigation options**, the corresponding time is shown in the top line on the route guidance screen.

### Current position information

The following information on the current position is displayed:

- City
- Street name

- Latitude
- Longitude
- Map display

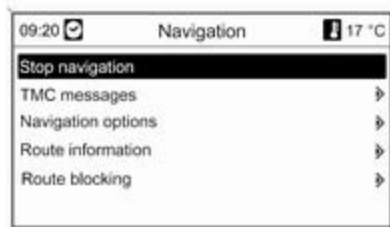


The current position can be copied to the address book or myPOIs memory using **Store**, see "Storing an address in the address book or myPOIs memory" in chapter "Destination input" above.

### Destination information

Displayed information: same as on the display for **Current position**.

## Functions for active route guidance



### Stop navigation

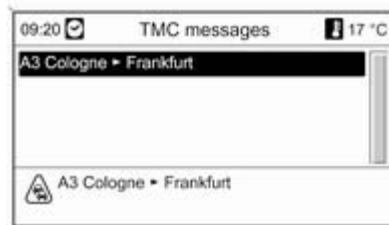
After selecting **Stop navigation**, the route guidance is deactivated and the menu options for route guidance inactive are displayed, see "Functions with route guidance inactive" above.

### TMC messages

Information on TMC, see chapter "Dynamic guidance" ↗ 129.

After selecting **TMC messages** the **Filtering** menu is displayed.

Select whether **All traffic messages** or only **Traffic messages along route** should be displayed in the **TMC messages** list, see below.



### Navigation options

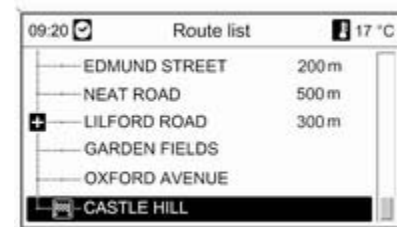
Description, see "Functions with route guidance inactive" above.

### Route information

The following information can be accessed on the **Route information** menu:

- **Route list**
- **Current position information**

- **Destination information**
  - **Overview current route**
- Route list**



All streets on the calculated route are listed with the related distances.

Route list items marked with a "+" symbol can be expanded by selecting the related list item. After selection, further details on the related list item are displayed.

### Current position information

Description, see "Functions with route guidance inactive" above.

### Destination information

Description, see "Functions with route guidance inactive" above.

### Overview current route

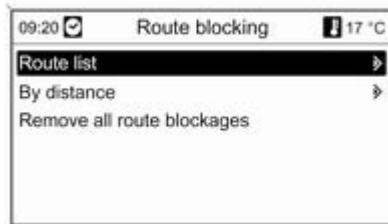
The following information on the current route is displayed:



- Position
- Destination
- Arrival time
- Distance
- Map display

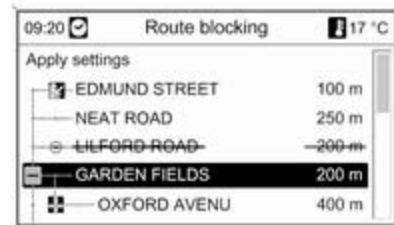
### Route blocking

The following options are available to manually exclude certain areas/route sections from the route guidance:



### Route list

In the list of street names on the currently calculated route, streets can be excluded from the route guidance.



To exclude a street from the route guidance:

Mark the regarding street name and press the multifunction knob. The street name is displayed crossed-out.

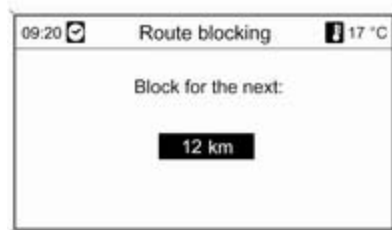
If desired, exclude further streets from the route guidance.

Select **Apply settings** and confirm the displayed message.

The route is re-calculated, taking into account the excluded streets.

### By distance

By setting a distance the section of route from the current position to the set distance can be excluded from the route guidance.



Set the desired distance, press the multifunction knob and then confirm the displayed message.

The route is re-calculated taking into account the excluded route section.

#### Note

The route blocking entered remains active until a new route calculation is performed.

### Remove all route blockages

After selecting this option, all areas/ route sections previously selected as to be excluded from the route guidance will be taken into account again for route guidance.

### Dynamic guidance

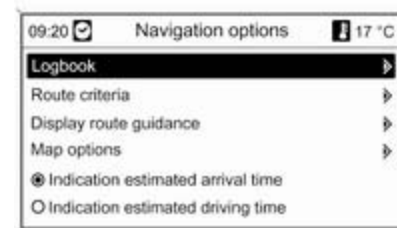
If dynamic route guidance is active, the entire current traffic situation that the Infotainment system receives via TMC is included in the calculation of the route. The route is suggested taking into account all traffic problems or restrictions as per pre-set criteria (e.g. „shortest route“, „avoid freeways“ etc.).

In the case of a traffic problem (e.g. traffic jam, closed road) on the route driven, a message is displayed and a voice message output indicating the nature of the problem. The driver can decide whether to drive around the traffic problem taking the suggested change to the route or to carry on through the traffic problem.

Nearby traffic problems are also reported if route guidance is not active.

If route guidance is active, the system continuously checks, based on the traffic information, whether it would be better to recalculate the route or take an alternative route taking into account the current traffic situation.

The activation and deactivation of dynamic route guidance, as well as criteria for the calculation of the route and other settings for navigation, are made in the **Navigation options** menu ⇨ 158.





Dynamic route guidance only works if traffic information is received via the RDS-TMC traffic information system.

The possible delay due to a traffic problem calculated by the Infotainment system is based on data that the system receives via the RDS-TMC station currently set. The actual delay may be different to that calculated.

## Maps

All map data required for use of the navigation system is stored on an SD card provided with the Infotainment system.

### Map SD card

The SD card reader of the Infotainment system can only read the SD card provided specifically for use with the vehicle's navigation system. The SD card reader cannot read any other SD cards.

Due to production date of the map data on the SD card, some new roads may not be included, or some names

and roads may differ from those in use at the time the map data was produced.

To order additional SD cards or an update of the map data, contact a Vauxhall Authorised Repairer.

Replacing a map SD card, see below .

### Important information on SD card handling

#### Caution

Never attempt to use an SD card that has been cracked, deformed or repaired using adhesive tape. Doing so may damage the equipment.

- Handle the SD card with care. Never touch the metal contacts.
- Do not use any conventional cleaner, benzine, thinner, or antistatic spray.
- If you need to clean the SD card, use a soft cloth.

- Do not bend the SD card. Do not use any SD card that is bent or cracked.
- Do not put any sticker or write anything on either surface.
- Do not store the SD card in locations exposed to direct sunlight, or in high temperatures or humidity.
- Always place the SD card in its storage case, when not in use.

### Replacing a map SD card

The SD card slot is located in the centre console.

### Removing the SD card



Press on the inserted SD card to unlock it, and then carefully pull the SD card out of the SD card slot.

### Inserting the SD card



Push the SD card with the cut-out edge on the right side (see image above) carefully into the SD card slot until the card engages.

#### **Note**

The SD card and SD card slot must always be kept clean and dry.

## Symbols overview



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32

No.	Explanation
1	Current position
2	Destination
3	not available
4	not available
5	not available
6	Fog
7	Road works
8	Slippery road
9	Smog
10	Snow
11	Storm
12	Caution/warning
13	Closed road
14	Dense traffic
15	Traffic jam
16	Narrow lanes
17	Open list

No.	Explanation
18	Closed list
19	Shopping centre
20	Toll road
21	Tourist information
22	Sight
23	Sport & leisure
24	Going out
25	Museum
26	Car rental
27	Travel information
28	Leisure activity
29	Provision of services
30	Cash machine
31	Bus station
32	Camp site



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No.	Explanation
33	Chemist
34	Cinema
35	Airport
36	Amusement park
37	City
38	Bank
39	Traffic message
40	Ferry
41	Border
42	Tunnel
43	Kiosk
44	Grocery
45	Hotel/motel
46	Motorway exit
47	Car park
48	Park & ride
49	Multi-storey car park

No.	Explanation
50	Petrol station
51	Service area
52	Restaurant
53	WC
54	Historical monument
55	Hospital
56	Emergency
57	Police
58	Harbour
59	Mountain pass
60	Public place
61	Related to the car
62	Garage
63	Cemetery

## Speech recognition

General information .....	174
Navigation control .....	175
Phone control .....	184

### General information

The speech recognition of the Infotainment system enables you to operate various functions of the navigation system (only Navi 900; inclusive audio system features) and the phone portal via voice input. It recognises commands and numeric sequences independently of the relevant speaker. The commands and numeric sequences can be spoken without a voice pause between the individual words.

You can save destination addresses, radio stations and telephone numbers assigning a name of your choice (voice tag). Using these names, you can later set the destination address for an upcoming trip, select a radio station or set up a telephone connection.


In the event of incorrect operation or commands the speech recognition gives you visual and/or acoustic feedback and requests you to re-enter the desired command. Apart

from this, the speech recognition acknowledges important commands and will enquire if necessary.

To ensure that conversations inside the vehicle do not lead to unintentional triggering of system functions, the speech recognition does not start until it has been activated.

### Important notes on language support

- Not all languages available for the display of the Infotainment system are also available for the speech recognition.
- Not all languages available for the speech recognition of the phone portal are also available for the speech recognition of the navigation system (inclusive audio system features).
- Speech recognition of the phone portal: if the currently selected language for the display is not supported by the speech recognition, you need to enter the voice commands in English.

To be able to enter voice commands in English, you first need to activate the phone main menu by pressing the **PHONE** button on the Infotainment system, and then activate the speech recognition of the phone portal by pressing the button  on the steering wheel.

- Speech recognition of the navigation system: if the currently selected language for the display is not supported by the speech recognition, speech recognition will not be available.

In such a case you need to select another language for the display if you want to control the Infotainment system via voice commands:

Press the **CONFIG** button, select the **Languages** menu item and then select, e.g. **English**.


As the English language is one of the languages supported by the speech recognition of the navigation system, speech recognition will then be available.

### Note

If you change the language shown on the Infotainment system's display, all names currently assigned to preset stations and/or destination addresses will be deleted.


## Navigation control

### General information

The speech recognition of the navigation system (only Navi 900; inclusive audio system features) only works if a map SD card with speech recognition data is inserted  168.

Navigation-related voice commands are not available until the initial disclaimer message has been confirmed.

### Activating speech recognition

Press the button  on the steering wheel.

The audio system mutes, a voice output message prompts you to say a command, and a help menu with the

most important commands currently available is shown on the display, see "Help menus" further below.

As soon as the speech recognition is ready for voice input, a beep is heard and the red coloured symbol in the upper right corner of the help menu changes to grey colour.

You can now say a voice command to directly initiate a system function (like playing a preset radio station), or to start a dialogue sequence with several dialogue steps (like entering a destination address), see "Operation via voice commands" further below.

After a dialogue sequence is finished, the speech recognition is deactivated automatically. To initiate another dialogue sequence, you need to activate the speech recognition again.



### Adjusting the volume for voice output messages

Turn the volume knob on the Infotainment system, or press the + or – button on the steering wheel.



## Cancelling a dialogue sequence


There are various possibilities to deactivate the speech recognition and to cancel a dialogue sequence:

- Press the button  on the steering wheel or any button on the Infotainment system.
- Press and hold the button  on the steering wheel for a few seconds.
- Say "Cancel".

In the following situations a dialogue sequence is automatically cancelled:

- If you do not say any commands for some time (by default you are prompted three times to say a command).
- If you say commands that are not recognized by the system (by default you are prompted three times to say a correct command).

## Breaking up a running voice output message

As an experienced user you can break up a running voice output message by (short) pressing the button  on the steering wheel.

Afterwards, the current dialogue sequence will be continued automatically.

## Important notes on voice input

- If experiencing difficulty with the system recognizing a command, confirm that the command is correct. Try saying the command clearly or wait for a brief moment after the beep.
- Background noise such as a climate control fan positioned on high, open windows, and very loud outside noises, even if the windows are closed, can cause voice commands to be misunderstood
- The speech recognition only recognizes commands based on the language currently selected for the Infotainment display.

## Visual and acoustic help

After activating speech recognition, you are guided through a dialogue sequence via help menus, voice output messages and on-screen messages.

## Help menus

Dependent on the currently active mode of operation (radio, CD player, navigation etc.), a help menu with the most important available voice commands is displayed.

### Example: Radio help menus

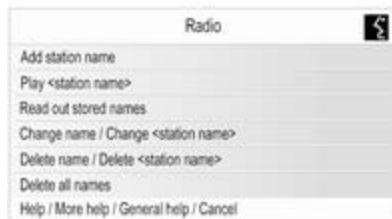
If the radio mode is currently active, the radio help menu (part 1) is displayed.



As soon as you hear a beep and the symbol in the upper right corner of the help menu (see image above) has changed its colour from red to grey, you can say one of the following commands:

- One of the commands shown on the help menu.
- One of the additional commands available for the radio mode, see image below.

To display these additional commands say "**More help**". The radio help menu (part 2) is displayed.

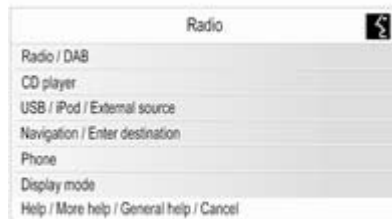


- One of the main commands for the speech recognition, see image below.

### Example: General help menu (main commands)

The general help menu primarily shows the commands required to change to another mode of operation, e.g., to change from the radio mode to the CD player mode.

To display the general help menu, say "**General help**".



### Important notes on commands

- Some command words displayed on the help menus are optional.

Example: when using the command "**Frequency** <87.5..108.0> MHz", you can leave out "MHz".

You can simply try out if there are shortened variants available for certain commands.

- For each command shown on the help menus various synonymous command variants are available.

Example: instead of saying "**Show station list**" you could also say "**Show stations**" or "**Display stations**".

You can simply try out if there are synonymous command variants available that suit you more than the displayed default variants.

- Slashes "/" separate several commands on a single help menu line. In some cases you need to combine command words on both sides of a slash.

Example: "**Start / Stop guidance**". In such case, you need to say, e.g., "**Start guidance**". "Start" on its own would not be a valid command.

- Pointed brackets "< ... >" indicate placeholder text.

Example: when you want to use the command "**Frequency**

"<87.5..108.0>", you need to exchange "<87.5..108.0>" for a specific figure between 87.5 and 108.0. You could say, e.g., **"Frequency 96 dot 3"**.

### Help messages

You can induce the system to read out all voice commands currently available.

After saying the command:

- **"Help"**: the system reads out the most important commands available for the currently active mode of operation.
- **"More help"**: the system reads out all additional commands available for the currently active mode of operation.
- **"General help"**: the system reads out all main commands, see "General help menu" above.

### Lists with selectable items

During dialogue sequences you are often prompted to select an item (e.g. a preset radio station or a city name) from a list.

### Example: Autostore lists



To select an item from such a list, you only need to say the number in front of the desired list item, e.g. **"5"**.

In most cases there are several "pages" of list entries available. To switch from one "page" to another, you need to say **"Next"** or **"Previous"**.

On each page the list items are numbered from "1." to "6." (no consecutive numbering).

### On-screen messages and acoustic prompts / feedback

During dialogue sequences you are often prompted via on-screen messages (see image below) and voice output messages, which kind of command you need to say next.

### Example: Storing a radio station using a name



If the radio mode is active and you say the command **"Add station name"**, the on-screen message shown above will be displayed, and the voice output message **"Please say the station name."** be announced by the system.

As soon as you hear a beep and the symbol in the upper right corner of the on-screen message (see image above) has changed its colour from red to grey, you can say the desired name.

After saying the name, the system gives you visual and acoustic feedback, stating whether the command could be successfully performed or not.

### Operation via voice commands

Below you will find descriptions on various typical and/or important examples of dialogue sequences.

Dialogue sequences not described below function almost identical/very similar to the described ones.

#### Changing to another mode of operation

Situation: the CD player mode is currently active.

Action: the user wants to change to the radio mode.

User: activates speech recognition.

User: **"Radio"**.

System: **"Radio"**.

System: activates the radio mode.

To perform a certain radio function via speech control, the user needs to activate speech recognition again and then say the desired command, see examples below.

#### Examples on radio control

Situation: the radio mode is currently active.

#### Changing to another waveband

Action: the user wants to change from the AM to the FM waveband.

User: activates speech recognition.

User: **"FM"**.

System: changes to the FM waveband.

#### Selecting a station via frequency

Action: the user wants to change to another FM station via entering a frequency.

User: activates speech recognition.

User: **"Frequency 96 dot 3"**.

System: changes to the regarding frequency.

#### Selecting a preset station

Action: the user wants to select a station stored in the second autostore list (AS2).

User: activates speech recognition.

User: **"Autostore list"**.

System: displays the first autostore list (AS1).

User: **"Next"**.

System: displays the second autostore list (AS2).

User: **"3"**.

System: plays the third station stored in the list.

#### Assigning a name to a preset station

You can assign names to a maximum of 12 preset stations (stored in the autostore lists or favourite lists, see chapter "Radio").

To be able to assign a name to a preset station, the regarding station must currently be played and the autostore or favourite list where the station is stored in must be shown on the display.

After assigning a name to a station, you can select that station by simply saying the assigned name.

Action: the user wants to assign a name to the currently played (preset) station.

User: activates speech recognition.

User: **"Add station name"**.

System: **"Please say the station name."**

User: **"BBC 2"**.

The regarding station can be selected now at any time by simply saying the assigned name, see below.

#### **Note**

If you change the language shown on the Infotainment system's display, all names currently assigned to preset stations and/or destination addresses will be deleted.

### **Selecting a preset station via the assigned name**

#### **Note**

If you use a name which was assigned to a station by another person, the name may not be recognized by the speech recognition because of the possibly very different voices and pronunciations.

User: activates speech recognition.

User: **"Play BBC 2"**.

System: plays the regarding station.

### **Examples on CD player control**

Situation: an audio or MP3 CD is already inserted, the CD player mode is currently active.

### **Selecting an album on an MP3 CD**

User: activates speech recognition.

User: **"Album list"**.

System: shows the list of albums on the MP3 CD (if albums available).

User: manually selects the desired album.

### **Selecting a track on an audio CD**

User: activates speech recognition.

User: **"All tracks"**.

System: shows the list of tracks stored on the audio CD.

User: manually selects the desired track.

Alternatively, if you know the number of the desired track:

User: **"Track 14"** (or using single digits: **"Track" "1" "4"**).

System: plays the selected track.

### **Examples on navigation control**

Situation: the navigation mode is currently active, route guidance is not active.

### **Changing route options**

Action: the user wants to change the current settings of some route options for an upcoming trip.

User: activates speech recognition.

User: **"Route options"**.

System: shows the regarding help menu. The currently activated route options are indicated by check marks.



User: **"Economical"**.

User: **"Avoid toll roads"**.

User: **"Use ferries"**.

System: displays check marks next to the new settings.

User: **"Apply"**.

System: stores all changed route option settings.

### Selecting a point of interest

Action: user wants to select a nearby petrol station as destination address.

User: activates speech recognition.

User: **"Enter destination"** (if enter destination menu not already active).

User: **"Points of interest"**.

System: shows a list with search options.

User: **"Nearby"**.

System: shows a list with points of interest categories.



User: **"2"**.

System: shows the navigation menu for petrol station search.

User: manually performs the further operating steps, see chapter "Navigation".

### Entering an address

Action: user wants to enter the destination address for an upcoming trip.

User: activates speech recognition.

User: **"Enter destination"** (if enter destination menu not already active).

User: **"Enter address"**.

System: shows a menu for address input. The address data of the last calculated destination is used as basis for address input.



**Note**

The last calculated destination possibly has no valid address elements available that can be used as basis for address input via voice commands.

For example, not all points of interest stored on the map SD card or destinations picked from the map display (see chapter "Navigation") provide the required valid address data.

In such cases an empty or incompletely filled out menu for address input will be displayed.

Situation: the entire address data of the last calculated destination is available, the user needs to change only the street name and the house number to create the desired new destination address.

User: "**Street**".

System: "**What is the name of the street?**".

User: says the desired street name.

System: displays an alphabetically ordered list of street names that sound similar to the name the user said.

**Note**

If the list of street names does not contain the desired street name, you can say "**Spell**". After a corresponding voice output message, you can then enter the street name by spelling it, e.g. "M" "A" "I" "N" "S" "T" "R" "E" "E" "T".

User: says the number of the line that contains the desired street name, e.g. "**4**".

System: displays the selected street name on the menu for address input.

User: "**Number**".

System: "**Which street number do you want to drive to?**".

User: "**17**".

System: displays the entered house number on the menu for address input.

User: the user can now say "**Start guidance**" to start route guidance to the displayed address, or say "**Store**

**destination**" to store the displayed address in the address book or myPOIs memory, see chapter "Navigation".

**Address input for destinations in foreign countries**

In case you want to enter the address of a destination located in a foreign country, you need to spell the desired city name and street name.

Example: the display language of the Infotainment system is currently set to English and you want to enter the name of a city located in Germany.

In such case the system prompts you to spell the city name.

If a language-specific special letter (e.g. "Ü" or "Ñ") is not available for the currently selected display language, you need to use the closest letter of the alphabet the currently selected display language provides (e.g. "U" or "N"). The match to the special letter will then be done automatically by the system. Hyphens or spaces need not to be entered/spelled.

Example: the language of the Infotainment system is set to English, **Country** is set to "GERMANY (D)", and you want to enter the city name "BAD MÜNSTER".

When spelling the city name, you can omit the space and replace the special German letter "Ü" by an "U".

User: "**City**".

System: "**Please spell the city name.**".

User: "B" "A" "D" "M" "U" "N" "D" "E" "R".

System: displays a list with the best matches, e.g.:

"1. BAD MÜNSTER"

"2. BAD MÜNSTER"

"3. ..." etc.

User: "**1**" (or "**Yes**").

System: sets **City** to BAD MÜNSTER.

### Assigning a name to a destination address

You can assign names to a maximum of 20 destination addresses stored in the address book.

Afterwards you can select one of these destination addresses by simply saying the assigned name.

User: manually selects an address in the address book, see chapter "Destination input" above.

System: displays the **Navigation** menu.

User: manually selects the **Edit** menu item.

System: displays the **Edit** menu.

User: manually selects the **Add name** menu item.

System: "**Please say the destination name.**"

User: can say an arbitrary name.

The regarding destination address can be selected now at any time by simply saying the assigned name: "**Navigate to <name>**".

### Note

If you delete an address from the address book, a name (voice tag) possibly assigned to this address will also be deleted.


### Note

If you change the language shown on the Infotainment system's display, all names currently assigned to preset stations and/or destination addresses will be deleted.

### Examples on phone control

Examples on phone control via speech recognition, see chapter "Phone control".

### General information

When you press the button  on the steering wheel, and the phone portal is currently active (any phone related menu is displayed), the speech recognition of the phone portal will be activated.

As long as the speech recognition of the phone portal is active, you cannot change to another mode of operation (e.g. radio mode) using a voice command.


You need to manually activate another mode of operation by using the corresponding button on the



Infotainment system (e.g. the **RADIO** button) or the SRC (Source) button on the steering wheel.

## Phone control

### Activating speech recognition


To activate the speech recognition of the Phone portal, press the button  on the steering wheel. For the duration of the dialogue any active audio source is muted and any traffic news fade-in is cancelled.

### Adjusting the volume for voice output

Turn the volume knob on the Infotainment system, or press the + or – button on the steering wheel.

### Cancelling a dialogue

There are various possibilities of deactivating the speech recognition and cancelling the dialogue:

- Press the button  on the steering wheel.
- Say **"Cancel"**.

- Do not enter (say) any commands for some time.
- After the third unrecognised command.

### Operation

With the aid of the speech recognition the mobile phone can be operated very conveniently via voice input. It is sufficient to activate the speech recognition and to enter (say) the desired command. After input of the command the Infotainment system guides you through the dialogue with appropriate questions and feedback to achieve the desired action.

### Main commands

After activation of the speech recognition a short tone signals that the speech recognition is expecting input.

Main commands available:

- **"Dial"**
- **"Call"**
- **"Redialing"**
- **"Save"**

- **"Delete"**
- **"Directory"**
- **"Pair"**
- **"Select device"**
- **"Voice feedback"**

### Commands that are frequently available

- **"Help"**: the dialogue is terminated and all commands available within the actual function are enumerated.
- **"Cancel"**: the speech recognition is deactivated.
- **"Yes"**: a suitable action is triggered depending on the context.
- **"No"**: a suitable action is triggered depending on the context.

### Entering a telephone number

After the command **"Dial"** the speech recognition requests input of a number.

The telephone number must be spoken in your normal voice without any artificial pauses between the individual numbers.

Recognition works best, if a pause of at least half a second is made after every three to five digits. The Infotainment system then repeats the numbers recognised.

You can then enter further numbers or the following commands:

- **"Dial"**: the inputs are accepted.
- **"Delete"**: the number last entered or the block of numbers last entered is deleted.
- **"Plus"**: a preceding "+" is entered for a call abroad.
- **"Verify"**: the inputs are repeated by the voice output.
- **"Asterisk"**: An asterisk "\*" is entered.
- **"Hash"**: A hash "#" is entered.
- **"Help"**
- **"Cancel"**

The maximum length of the telephone number entered is 25 digits.

To be able to make a call abroad you can say the word "Plus" (+) at the beginning of your number. The plus allows you to call from any country

without knowing the prefix for calls made abroad in that country. Then say the required country code.

#### Example of a dialogue

User: **"Dial"**

Voice output: **"Please, say the number to dial"**

User: **"Plus Four Nine"**

Voice output: **"Plus Four Nine"**

User: **"Seven Three One"**

Voice output: **"Seven Three One"**

User: **"One One Nine Nine"**

Voice output: **"One One Nine Nine"**

User: **"Dial"**

Voice output: **"The number is being dialled"**

#### Entering a name

Using the **"Call"** command a telephone number is entered that has been stored in the telephone book under a name (voice tag).

Commands available:

- **"Yes"**
- **"No"**

- **"Help"**

- **"Cancel"**

#### Example of a dialogue

User: **"Call"**

Voice output: **"Please, say the nametag to call"**


User: **<Name>**

Voice output: **"Do you want to call <Michael>?"**

User: **"Yes"**

Voice output: **"The number is being dialled"**

#### Starting a second call

A second call can be started during an active telephone call. To do so, press the button .

Commands available:

- **"Send"**: activate manual DTMF (touch-tone dialling), e.g. for voice mail or telephone banking.
- **"Send nametag"**: activate DTMF (touch-tone dialling) by entering a name (voice tag).
- **"Dial"**
- **"Call"**

- "Redialing"
- "Help"
- "Cancel"

### Example of a dialogue

User: <if a telephone call is active:  
press the  button>

User: **"Send"**

Voice output: **"Please, say the  
number to send."**

(for number input see the dialogue  
example for **Entering a telephone  
number**)

User: **"Send"**

### Redialing

The number last dialled is redialled  
with the command **"Redialing"**.

### Saving

With the command **"Save"** a  
telephone number is stored in the  
telephone book under a name (voice  
tag).

The name entered must be repeated  
once. The pitch and pronunciation  
must be as identical as possible for

both name inputs, otherwise the  
speech recognition will reject the  
inputs.

A maximum of 50 voice tags can be  
stored in the telephone book.

Voice tags are speaker-dependent,  
i.e. only the person who recorded a  
voice tag can open it.

To avoid the start of the recording of  
a saved name from being cut off, a  
short pause should be left after an  
input request.

To be able to use the voice tag  
independently of the location, i.e.  
including other countries, all  
telephone numbers should be  
entered with a "plus" character and a  
country code.

Commands available:

- **"Save"**: the inputs are accepted.
- **"Verify"**: the last input is repeated.
- **"Help"**
- **"Cancel"**

### Example of a dialogue

User: **"Save"**

Voice output: **"Please, say the  
number to save"**

(for number input see the dialogue  
example for **Entering a telephone  
number**)

User: **"Save"**

Voice output: **"Please, say the  
nametag to save"**

User: <Name>

Voice output: **"Please, repeat the  
nametag to confirm"**

User: <Name>

Voice output: **"Saving the nametag"**

### Deleting

A previously saved voice tag is  
deleted with the command **"Delete"**.

Commands available:

- **"Yes"**
- **"No"**
- **"Help"**
- **"Cancel"**

### Listening to stored names

The voice output of all stored names (voice tags) is started with the command **"Directory"**.

Commands available during voice output of the voice tags:

- **"Call"**: the telephone number of the voice tag last read aloud is selected.
- **"Delete"**: the entry of the voice tag last read aloud is deleted.

### Saving a mobile phone to or deleting it from the device list

With the command **"Pair"** a mobile phone can be saved to or deleted from the device list of the Phone portal ⇨ 189.

Commands available:

- **"Add"**
- **"Delete"**
- **"Help"**
- **"Cancel"**

### Example of a dialogue

User: **"Pair"**

Voice output: **"Do you want to add or delete a device?"**

User: **"Add"**

Voice output: **"Using the pair function in the external device, enter <1234> to pair."**

Voice output: **"Do you want to pair the device?"**

User: **"Yes"**

Voice output: **"The device is connected as the number <device\_number>"**

### Selecting a mobile phone from the device list

Using the **"Select device"** command, a mobile phone can be selected in the device list for setting up a Bluetooth connection.

### Example of a dialogue

User: **"Select device"**

Voice output: **"Please, say a device number to select"**

User: **<device\_number>**

Voice output: **"Do you want to select the device number <device\_number>?"**

User: **"Yes"**

Voice output: **"Do you want to pair the device?"**

User: **"Yes"**

Voice output: **"One moment. The system searches for the selected device"**

Voice output: **"Device number <dev\_num> is selected"**

### Voice feedback

Each voice input is answered or commented on by the Infotainment system by way of a voice output that is adapted to the situation.

To switch the voice output on or off, enter **"Voice feedback"** or press the button Ⓜ.

## Phone

General information .....	188
Bluetooth connection .....	189
Emergency call .....	197
Operation .....	198
Mobile phones and CB radio equipment .....	204

## General information

The Phone portal provides you with the possibility of having mobile phone conversations via a vehicle microphone and the vehicle loudspeakers as well as operating the most important mobile phone functions via the Infotainment system in the vehicle. To be able to use the Phone portal, the mobile phone has to be connected with it via Bluetooth.

The Phone portal can be operated optionally via the speech recognition system.

Not all Phone portal functions are supported by every mobile phone. The possible phone functions depend on the relevant mobile phone and network provider. You will find further information on this in the operating instructions for your mobile phone or you can enquire about them with your network provider.

## Important information for operation and traffic safety

### Warning

Mobile phones have effects on your environment. For this reason safety regulations and directions have been prepared. You should be familiar with the related directions before you use the telephone function.

### Warning

Use of the hands-free facility while driving can be dangerous because your concentration is reduced when telephoning. Park your vehicle before you use the hands-free facility. Follow the stipulations of the country in which you find yourself at present.

Do not forget to follow the special regulations that apply in specific areas and always switch off the mobile phone if the use of mobile

phones is prohibited, if interference is caused by the mobile phone or if dangerous situations can occur.

## Bluetooth

The Phone portal is certified by the Bluetooth Special Interest Group (SIG).

You will find further information about the specification on the Internet at <http://www.bluetooth.com>

## Operating the speech recognition

Do not use the speech recognition in emergencies, because in stress situations your voice can change so much that it can no longer be recognised sufficiently to set up the desired connection quickly enough.

## Control elements

The most important telephone specific control elements are as follows:

**PHONE** button: opens the telephone main menu.

Controls on steering wheel:

☎, 📞: take call, activate speech recognition.

📞, ✖: end/reject call, deactivate speech recognition.

The Phone portal can be operated optionally via speech recognition ➤ 174.

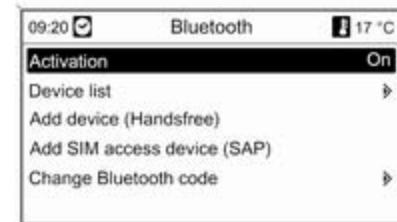
## Bluetooth connection

Bluetooth is a radio standard for the wireless connection of, for example, a telephone with other devices. Information such as a telephone book, call lists, the network operator's name and field strength can be transferred. The functionality can be restricted depending on the telephone type.

To be able to set up a Bluetooth connection with the Phone portal, the Bluetooth function of the mobile phone has to be activated and the mobile phone has to be set to "visible". For further information please refer to the operating instructions for the mobile phone.

## Navi 600 / Navi 900

### Bluetooth menu



Press **CONFIG** button.

Select **Phone settings** and then **Bluetooth**.

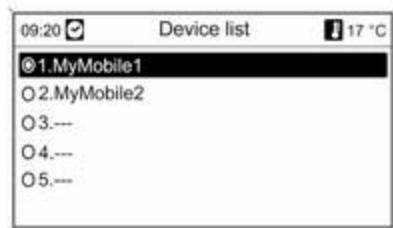
### Activating Bluetooth

If the Bluetooth function of the Phone portal is deactivated:

Set **Activation** to **On** and confirm the subsequent message.

### Device list

When a mobile phone is connected to the Phone portal via Bluetooth for the first time, the mobile phone is saved in the device list.



A maximum of 5 mobile phones can be saved in the device list.

### Connecting a mobile phone for the first time

There are two options for connecting a mobile phone to the Phone portal: by adding it as a handsfree device or by using the SIM Access Profile (SAP).

### Handsfree mode

When the mobile phone is added as a handsfree device the user can make or receive calls and use other functions via the Phone portal. The range of functions available depends on the mobile phone. While it is connected with the Phone portal the mobile phone can be operated as usual.

Note that the mobile phone battery may discharge at a higher speed than usual due to the Bluetooth connection active along with normal operation of the mobile phone.

### SAP mode

When using the SAP option, a wider range of functions is available via the Phone portal such as various security and messaging options. The actual range of functions depends on the network provider. Additionally, in the SAP mode the mobile phone is in the standby mode. Only the Bluetooth connection and the SIM card are active, which leads to lower energy consumption of the connected mobile phone.

### Connecting a mobile phone as a handsfree device



Select **Add device (Handsfree)**. The Bluetooth code to be entered into the mobile phone is displayed.

The Phone portal can now be detected by other Bluetooth devices.

As soon as the mobile phone has detected the Phone portal the Bluetooth code can be entered on the mobile phone.

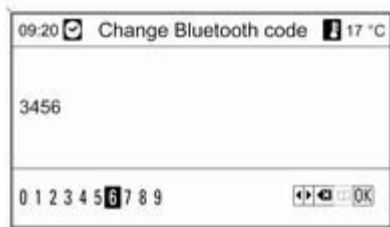


As soon as the Phone portal has detected the mobile phone, the connection set-up can be confirmed.

The mobile phone is adopted in the device list and can be operated via the Phone portal.

### Changing the Bluetooth code (only relevant for handsfree mode)

The first time a Bluetooth connection to the Phone portal is set up, a default code is displayed. This default code can be changed at any time. For security reasons a four-digit and randomly selected code must be used for pairing devices.



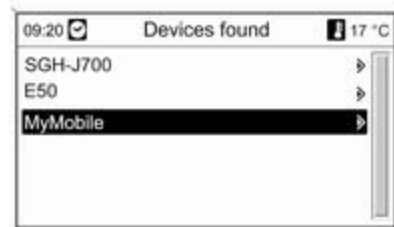
Select **Change Bluetooth code**. On the menu displayed, edit the actual Bluetooth code and accept the modified code using **OK**.

### Connecting a mobile phone via SIM Access Profile (SAP)

Select **Add SIM access device (SAP)**. The mobile portal scans for available devices and displays a list of devices found.

#### Note

The mobile phone must have Bluetooth activated and be set to visible.



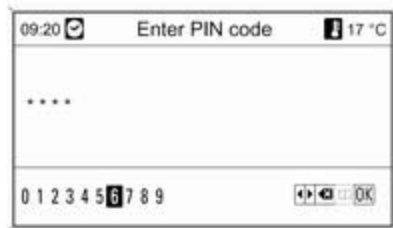
Select the desired mobile phone from the list. The SAP passcode prompt is shown on the Infotainment display containing a 16-digit code.





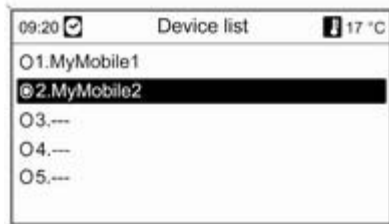
Enter the displayed SAP passcode in the mobile phone (without spaces). The mobile phone PIN code is shown on the Infotainment display.

If the **PIN request** function is active, the user will have to enter the PIN code of the SIM card in the mobile phone.



Enter the PIN code of the mobile phone SIM. The mobile phone is paired with the Phone portal. Services of the mobile network provider can be used via the Phone portal.

### Connecting a mobile phone saved in the device list



Select the desired mobile phone and then select the option **Select** in the menu displayed.

As soon as the Phone portal has detected the mobile phone, the connection setup can be confirmed.

The mobile phone can be operated via the Phone portal.

### Removing a mobile phone from the device list

Select the desired mobile phone from the device list. In the menu displayed select **Delete** and confirm the subsequent message.

### Adjusting the ring tone

To change the ring tone characteristic:

Press **CONFIG** button.

Select **Phone settings** and then **Ringtone**.

Select the desired option.

To change the ring tone volume:

While the phone rings turn the  $\odot$  knob of the Infotainment system or press the buttons **+** / **-** on the steering wheel.

### Setting up a connected phone

Various mobile phone settings can be configured in the **Phone settings** menu, if the phone is connected via SAP.

### Changing security settings

Press **CONFIG** button.

Select **Phone settings** and then **Security**.

The security dialogue is displayed.

### Activating/Deactivating PIN request

Select **PIN request On** or **Off**.

Enter the PIN code of the mobile phone SIM card and confirm.

#### Note

This option depends on the individual network provider.

### Changing the PIN code

Select **Change PIN**.

Enter the current PIN code. Enter the new PIN code. Repeat the new PIN code and confirm. The PIN has been changed.

### Configuring network services

Select **Phone settings** and then **Network services**. The Network services dialogue is displayed.

Depending on the network provider and the mobile phone several options are available.

- **Network selection:** choose between automatic or manual network selection.
- **Call waiting:** activate or deactivate call waiting.

- **Call diverting:** select diverting options depending on the situation.
- **Call barring:** configure call barring options depending on the situation.

For details on network services configuration refer to the mobile phone manual or enquire with the mobile network provider.

### Configuring SMS centre number

The SMS centre number is a phone number that acts as a gateway for transferring SMS messages between mobile phones. This number is usually preset by the network provider.

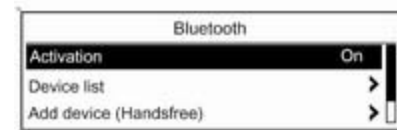
To configure the SMS centre number select **Phone settings** and then **SMS center number**. If required, modify the SMS centre number.

### Resetting the mobile phone to factory settings

Select **Phone settings** and then **Factory settings**.

## CD 300 / CD 400plus

### Bluetooth menu



Press the **CONFIG** button.

Select **Phone settings** and then **Bluetooth**.

### Activating Bluetooth

If the Bluetooth function of the Phone portal is deactivated: set **Activation** to **On** and confirm the subsequent message.

### Device list

When a mobile phone is connected to the Phone portal via Bluetooth for the first time, the mobile phone is stored in the device list.



A maximum of 5 mobile phones can be stored in the device list.

### Connecting a mobile phone for the first time

There are two options for connecting a mobile phone to the Phone portal: by adding it as a handsfree device or by using the SIM Access Profile (SAP).

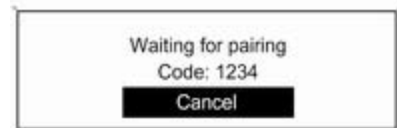
### Handsfree mode

When the mobile phone is added as a handsfree device the user can make or receive calls and use other functions via the Phone portal. The range of functions available depends on the mobile phone. While it is connected with the Phone portal the mobile phone can be operated as usual. Note that the mobile phone battery may discharge at a higher speed than usual due to the Bluetooth connection active along with normal operation of the mobile phone.

### SAP mode

When using the SAP option, a wider range of functions is available via the Phone portal such as various security and messaging options. The actual range of functions depends on the network provider. Additionally, in the SAP mode the mobile phone is in the standby mode. Only the Bluetooth connection and the SIM card are active, which leads to lower energy consumption of the connected mobile phone.

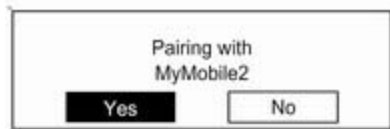
### Connecting a mobile phone as a handsfree device



Select **Add device (Handsfree)**. The Bluetooth code to be entered into the mobile phone is displayed.

The Phone portal can now be detected by other Bluetooth devices.

As soon as the mobile phone has detected the Phone portal the Bluetooth code can be entered into the mobile phone.

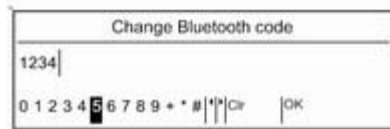


As soon as the Phone portal has detected the mobile phone, the connection set-up can be confirmed.

The mobile phone is adopted in the device list and can be operated via the Phone portal.

#### Changing the Bluetooth code (only relevant for handsfree mode)

The first time a Bluetooth connection to the Phone portal is set up, a default code is displayed. This default code can be changed at any time. For security reasons a four-digit and randomly selected code must be used for pairing devices.



Select **Change Bluetooth code**. On the menu displayed, edit the actual Bluetooth code and accept the modified code using **OK**.

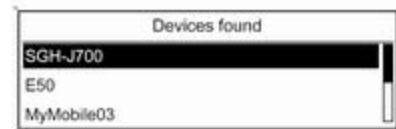
#### Connecting a mobile phone via SIM Access Profile (SAP) (only CD 400plus)

Select **Add SIM access device**.

The Phone portal scans for available devices and displays a list of devices found.

#### Note

The mobile phone must have Bluetooth activated and be set to visible.

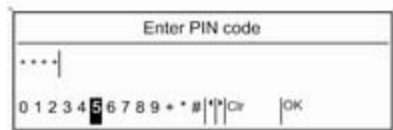


Select the desired mobile phone from the list. The SAP passcode prompt is shown on the Infotainment display containing a 16-digit code.



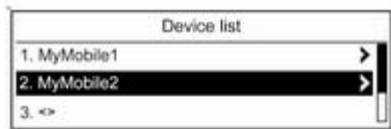
Enter the displayed SAP passcode in the mobile phone (without spaces). The mobile phone PIN code is shown on the Infotainment display.

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Enter the PIN code of the mobile phone SIM. The mobile phone is paired with the Phone portal. Services of the mobile network provider can be used via the Phone portal.

### Connecting a mobile phone saved in the device list



Select the desired mobile phone and then select the option **Select** in the menu displayed.

As soon as the Phone portal has detected the mobile phone, the connection setup can be confirmed.

The mobile phone can be operated via the Phone portal.

### Removing mobile phone from device list

Select the desired mobile phone from the device list. In the menu displayed select **Delete** and confirm the subsequent message.

### Adjusting the ring tone

To change the ring tone characteristic:

Press **CONFIG** button.

Select **Phone settings** and then **Ring tone**.

Select the desired option.

To change the ring tone volume:

While the phone rings turn the  $\odot$  knob of the Infotainment system or press the buttons **+** / **-** on the steering wheel.

### Setting up a connected phone

Various mobile phone settings can be configured in the **Phone settings** menu, if the phone is connected via SAP.

### Changing security settings

Press **CONFIG** button.

Select **Phone settings** and then **Security**.

The security dialogue is displayed.

### Activating/Deactivating PIN request

Select **PIN request On** or **Off**.

Enter the PIN code of the mobile phone SIM card and confirm.

#### Note

This option depends on the individual network provider.

### Changing the PIN code

Select **Change PIN**.

Enter the current PIN code. Enter the new PIN code. Repeat the new PIN code and confirm. The PIN has been changed.

### Configuring network services

Select **Phone settings** and then **Network services**. The Network services dialogue is displayed.

Depending on the network provider and mobile phone there are several options available.

- **Network selection:** choose between automatic or manual network selection.
- **Call waiting:** activate or deactivate call waiting.

- **Call diverting:** select diverting options depending on the situation.
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For details on network services configuration refer to the mobile phone manual or enquire with the mobile network provider.

### Configuring SMS centre number

The SMS centre number is a phone number that acts as a gateway for transferring SMS messages between mobile phones. This number is usually preset by the network provider.

To configure the SMS centre number select **Phone settings** and then **SMS centre number**. If required, modify the SMS centre number.

### Resetting the mobile phone to factory settings

Select **Phone settings** and then **Restore factory settings**.

## Emergency call

### Warning

Connection setup cannot be guaranteed in all situations. For this reason you should not rely exclusively on a mobile phone when a vitally important communication (e. g. a medical emergency) is concerned.

In some networks it may be necessary for a valid SIM card to be properly inserted in the mobile phone.

### Warning

Bear in mind that you can make and receive calls with the mobile phone, if it is in a service area with a sufficiently strong signal. Under certain circumstances emergency calls cannot be made on all mobile phone networks; it is possible that they cannot be made when certain network services and/or telephone

functions are active. You can enquire about this with the local network operators.

The emergency call number can differ depending on the region and country. Please enquire beforehand about the correct emergency call number for the relevant region.

### **Making an emergency call**

Dial the emergency call number (e.g. 112).

The telephone connection to the emergency call centre is set up.

Answer when the service personnel questions you about the emergency.

#### **⚠ Warning**

Do not end the call until you are requested to do so by the emergency call centre.

## **Operation**

### **Introduction**

As soon as a connection via Bluetooth has been set up between your mobile phone and the Infotainment system, you can also operate many functions of your mobile phone via the Infotainment system.

Via the Infotainment system, you can, e.g., set up a connection to the telephone numbers stored in your mobile phone or change the telephone numbers.

#### **Note**

In the handsfree mode mobile phone operation continues to be possible, e. g. taking a call or adjusting the volume.


After setup of a connection between the mobile phone and the Infotainment system the mobile phone data is transmitted to the Infotainment system. This can take some time depending on the phone model. During this period operation of

the mobile phone is possible via the Infotainment system only to a limited extent.

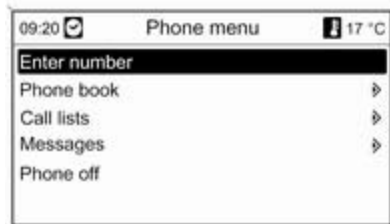
Not every telephone supports all functions of the Phone portal. Therefore deviations from the range of functions described with these specific telephones are possible.

### **Navi 600 / Navi 900**

#### **Setting the volume for hands-free facility**

Turn the  knob of the Infotainment system or press the buttons **+** / **-** on the steering wheel.

## Dialling a telephone number

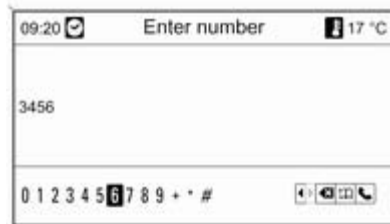


With the telephone main menu active, press the multifunction knob to open the **Phone menu**.

Several options for dialling telephone numbers, for using the phone book and call lists, for viewing and editing messages are available.


Using the **Phone off** command the connected phone can be detached from the Phone portal.

## Entering a number manually



Select **Enter number**, then enter the desired number sequence.

To start the dialling process, select .

To open the telephone book menu, select .

### Telephone book

After setting up the connection the telephone book is compared with the telephone book in the temporary memory, provided that the same SIM card or same telephone is concerned. During this period any newly added entries are not displayed.

If the SIM card or telephone are different, the telephone book is reloaded. This process can take a few minutes depending on the phone model.

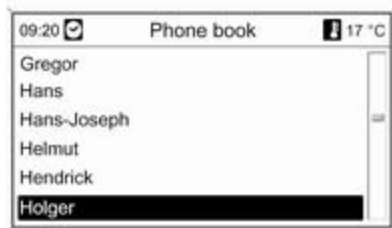
### Selecting a telephone number from the telephone book



Select **Phone book**.

On the **Search** menu displayed, select the desired first letter range to start a preselection of the telephone book entries that you want to have displayed.





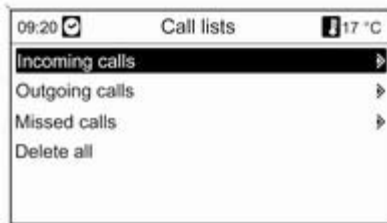
### Note

Telephone book entries are carried over as they are transferred from the mobile phone. The presentation and order of the telephone book entries may be different on the Infotainment system's display and the mobile phone's display.

After having performed the preselection: select the desired entry in the telephone book to display the numbers saved under this entry.

Select the desired number to start the dialling process.

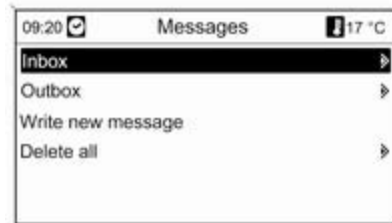
### Call lists



Via the menu **Call lists** the incoming, outgoing and missed calls can be viewed and the relevant numbers can be dialled. The lists can also be deleted in this menu.

To start a dialling process: select the desired call list, an entry in the call list and finally the desired telephone number.

### Messaging functions



When the mobile phone is paired using the SAP mode, messages can be viewed, composed and sent via the Phone portal. The messages can also be deleted in this menu.

To view received messages: select **Inbox**.

To view sent messages: select **Outbox**.

To compose a message: select **Write new message**.

### Note

Messages are limited to 70 characters.

### Incoming call

When there is an incoming call a menu is displayed for you to accept or decline the telephone call.

Select the required option.

### Functions during a telephone call

If you are currently making a telephone call, press the multifunction knob to open a submenu.

Various options are available depending on the situation and range of functions of the mobile phone:

- **Hang up:** disconnect the telephone connection.
- **Call number:** enter a telephone number to make a second telephone call or perform DTMF (touch-tone dialling), e.g. for voice mail or telephone banking.
- **Detach call:** detach the connection to a conference participant in a telephone conference.
- **Merge calls:** merge two calls when there are several active calls.

- **Switch calls:** switch between calls, if there are several calls.


- **Mute call:** mute a call.

#### Note

If the ignition is turned off during a telephone call the connection remains active until the telephone call is terminated.

### CD 300 / CD 400plus

#### Setting the volume for hands-free facility

Turn the  knob of the Infotainment system or press the buttons + / - on the steering wheel.

### Dialling a telephone number

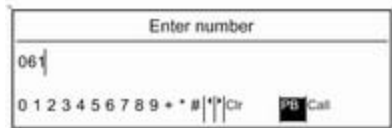


With the telephone main menu active, press the multifunction knob to open the phone operation menu.

Several options for dialling telephone numbers, for using the phone book and call lists, for viewing and editing messages are available.

Using the **Phone off** command the connected phone can be detached from the Phone portal.

## Entering a number manually



Select **Enter number** and then enter the desired number sequence.

Select **Call** to start the dialling process.

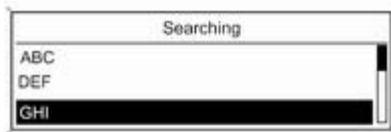
You can switch to the telephone book menu by selecting **PB**.

## Telephone book

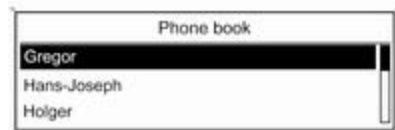
After setting up the connection the telephone book is compared with the telephone book in the temporary memory, provided that the same SIM card or same telephone is concerned. During this period any newly added entries are not displayed.

If the SIM card or telephone are different, the telephone book is reloaded. This process can take a few minutes depending on the phone model.

## Selecting a telephone number from the telephone book



Select **Phone book**. In the displayed menu select the desired first letter range to start a preselection of the telephone book entries that you want to have displayed.



## Note

Telephone book entries are carried over as they are transferred from the mobile phone. The presentation and order of the telephone book entries may be different on the Infotainment system's display and the mobile phone's display.

After having performed the preselection: select the desired entry in the telephone book to display the numbers saved under this entry.

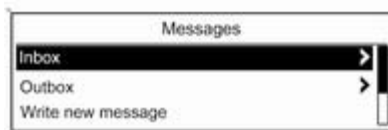
Select the desired number to start the dialling process.

## Call lists



Via the menu **Call lists** the user can view incoming, outgoing and missed calls and dial the relevant numbers. To start a dialling process: select the desired call list, an entry in the call list and finally the desired telephone number.

## Messaging functions (only CD 400)



When the mobile phone is paired using the SAP mode, the user can view, compose and send messages via the Phone portal. The messages can also be deleted in this menu.

To view received messages: select **Inbox**.

To view sent messages: select **Outbox**.

To compose a message: select **Write new message**.

### Note

Messages are limited to 70 characters.

## Incoming call

When there is an incoming call a menu is displayed to accept or decline the telephone call.

Select required option.

## Functions during a telephone call

If you currently have a telephone call, press the multifunction knob to open a submenu.

Various options are available depending on the situation and range of functions of the mobile phone:

- **Hang up:** disconnect the telephone connection.
- **Call number:** enter a telephone number to make a second telephone call or perform DTMF (touch-tone dialling), e.g. for voice mail or telephone banking.
- **Detach call:** detach the connection to a conference participant in a telephone conference.
- **Merge calls:** merge two calls when there are several active calls.

- **Switch calls:** switch between calls, if there are several calls.
- **Mute call:** mute a call.

## Mobile phones and CB radio equipment

### Installation instructions and operating guidelines

The vehicle specific installation instructions and the operating guidelines of the mobile phone and handsfree manufacturer must be observed when installing and operating a mobile telephone. Failure to do so could invalidate the vehicle type approval (EU directive 95/54/EC).

Recommendations for fault-free operation:

- Professionally installed exterior antenna to obtain the maximum range possible,
- Maximum transmission power 10 watts,
- Installation of the phone in a suitable spot, consider relevant Note in the Owner's manual, chapter **Airbag system**.

Seek advice on predetermined installation points for the external antenna or equipment holder and ways of using devices with a transmission power exceeding 10 watts.

Use of a handsfree attachment without external antenna with mobile telephone standards GSM 900/1800/1900 and UMTS is only permitted if the maximum transmission power of the mobile telephone is 2 watts for GSM 900 or 1 watt for the other types.

For reasons of safety, do not use the phone while driving. Even use of a handsfree set can be a distraction while driving.

#### Warning

Operation of radio equipment and mobile telephones which fail to meet above mentioned mobile telephone standards is only permitted using an antenna located outside of the vehicle.

#### Caution

Mobile telephones and radio equipment may lead to malfunctions in the vehicle electronics when operated inside the vehicle with no exterior antenna, unless the above mentioned regulations are observed.



# Index

## A

Activating CD player.....	116
Activating speech recognition....	
.....	175, 184
Activating the navigation system	130
Activating the radio.....	98
Address book.....	140
Address input.....	140
Autostore lists.....	99

## B

BACK button.....	86
Basic operation.....	86
Bluetooth.....	188
Bluetooth connection.....	189

## C

CD player	
activating.....	116
important information.....	114
usage.....	116
Configuring DAB.....	111
Configuring RDS.....	107
Control elements overview.....	76

## D

DAB.....	111
Destination input .....	140
Digital audio broadcasting.....	111
Dynamic guidance.....	167

## E

Emergency call.....	197
Enhanced Other Networks.....	107
EON.....	107

## F

Favourite lists.....	100
----------------------	-----

## G

General information.....	
. 74, 114, 120, 122, 126, 129,	174, 188
Guidance .....	158

## H

Handsfree mode.....	189
Home address.....	130

## I

Individual POIs.....	130
Infotainment system	
maximum startup volume.....	94
personalisation.....	96
speed dependent volume.....	94
tone settings.....	91
volume of the traffic	
announcements.....	94
volume settings.....	94

**M**

Maps .....	168
Map SD card	
handling.....	168
replace.....	168
Menu operation.....	86
Mobile phones and CB radio	
equipment .....	204
Multifunction knob.....	86
Mute.....	85
myPOIs.....	140
myPOIs announcement.....	130

**N**

Navigation	
activating.....	130
Address book.....	140
control elements.....	130
deleting Home address.....	130
deleting imported POIs.....	130
destination input.....	140
dynamic guidance.....	158, 167
fuel level low alert.....	140
functioning.....	129
highway lane guidance.....	158
Home address.....	140
importing/exporting POIs.....	130
Logbook.....	158
map SD card.....	168

myPOIs.....	140
myPOIs announcement.....	130
navigation display.....	130
navigation options.....	158
navigation volume.....	130
Points of Interest.....	140
repeat last navigation	
message.....	158
route blocking.....	158
route guidance.....	158
route list.....	158
start navigation.....	158
symbols overview.....	170
TMC messages.....	158
usage.....	130
using the speller function.....	140
Navigation control.....	175
Navigation display.....	130
Navigation volume.....	130

**O**

Operation.....	198
----------------	-----

**P**

Personalisation.....	96
Phone	
adjusting ring tones.....	189
Bluetooth.....	188
Bluetooth connection.....	189
call lists.....	198

control elements.....	188
dialling a number.....	198
emergency calls.....	197
functions during a call.....	198
handsfree mode.....	189
important information.....	188
messaging functions.....	198
recharging the battery.....	188
setting the volume.....	198
SIM Access Profile (SAP).....	189
telephone book.....	198
Phone control.....	184
Playing saved audio files.....	123

**R**

## Radio

Radio data system (RDS).....	107
activating.....	98
autostore lists.....	99
Digital audio broadcasting	
(DAB).....	111
favourite lists.....	100
selecting the waveband.....	98
station lists.....	102
station search.....	98
usage.....	98
waveband menus.....	102
Radio data system (RDS) .....	107
RDS.....	107
Recharging the phone battery....	188



Regionalization.....	107
Retrieving stations.....	99, 100
Route guidance.....	158, 167

## S

SAP mode.....	189
SD card.....	168
Selecting the waveband.....	98
Setting the navigation volume....	130
Setting the volume.....	85
SIM Access Profile (SAP).....	189
Speech recognition.....	174, 175, 184
activating.....	175, 184
adjusting volume.....	175
navigation/audio control.....	175
phone control.....	184
usage.....	175, 184
volume for voice output.....	184
Speed compensated volume.....	85
Speller function.....	140
Starting CD replay.....	116
Station search.....	98
Storing stations.....	99, 100
Switching the Infotainment system on or off.....	85
Switching the radio on.....	98
Symbols overview .....	170

## T

Theft-deterrent feature .....	75
Tone settings.....	91
Traffic announcements.....	94

## U

Updating station lists.....	102
Usage.....	85, 98, 116, 120, 126, 130
User defined POIs.....	140
Using the AUX input.....	120
Using the CD player.....	116
Using the digital picture frame....	126
Using the Infotainment system....	85
Using the navigation system.....	130
Using the radio.....	98
Using the USB port.....	122

## V

Voice recognition.....	174
Volume for voice output.....	175, 184
Volume settings.....	94

## W

Waveband menus.....	102
---------------------	-----